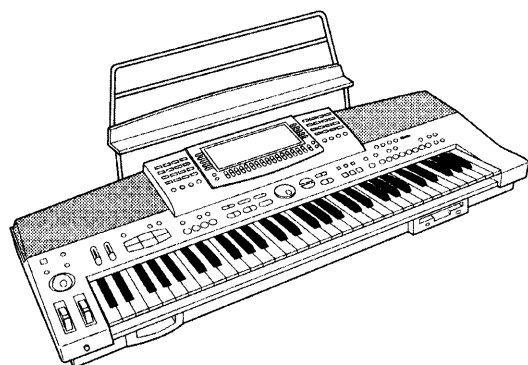


# Service Manual

## PCM KEYBOARD



### SX-KN6000

|      |                                             |
|------|---------------------------------------------|
| (M)  | U.S.A.                                      |
| (MC) | Canada                                      |
| (XM) | Mexico                                      |
| (EN) | Norway, Sweden, Denmark, Finland            |
| (EH) | Holland, Belgium                            |
| (EF) | France, Italy                               |
| (EZ) | Germany                                     |
| (EW) | Switzerland                                 |
| (EA) | Austria                                     |
| (EP) | Spain, Portugal, Greece, South Africa       |
| (EK) | the United Kingdom                          |
| (XL) | New Zealand                                 |
| (XR) | Australia                                   |
| (XS) | Malaysia                                    |
| (XD) | Hong Kong                                   |
| (XT) | Taiwan                                      |
| (X)  | Thailand, Indonesia, U.A.E., Panama, Brasil |
| (XA) | Argentina                                   |
| (XP) | Philippines                                 |
| (XW) | Singapore                                   |

### SPECIFICATIONS

#### KEYBOARD

61 KEYS (WITH INITIAL TOUCH)

#### SOUND GENERATOR

PCM

#### MAX. POLYPHONY

64 NOTES

#### SOUNDS

#### NUMBER OF SOUNDS:

1008 SOUNDS + 33 DRUM KITS  
+ 2 DIGITAL DRAWBARS

#### SOUND GROUP:

PIANO, GUITAR, STRINGS &  
VOCAL, BRASS, Mallet &  
ORCH PERC, WORLD, ORGAN &  
ACCORDION, SAX &  
WOODWIND, PAD, SYNTH,  
BASS, DRUM KITS, DIGITAL  
DRAWBAR, ACCORDION  
REGISTER

#### SOUND EXPLORER:

Supported

# Technics

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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                                                                                                                                                                                   |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EFFECT</b>               | PART:<br>SUSTAIN, DIGITAL EFFECT,<br>SOUND DSP<br>GLOBAL:<br>REVERB, CHORUS, MULTI, MIC<br>PITCH BEND, MODULATION<br>Supported<br>RIGHT 1, RIGHT 2, LEFT<br>2 OCTAVE<br>NUMBER OF RHYTHMS:<br>200 RHYTHMS × 4 VARIATIONS<br>RHYTHM GROUP:<br>8 & 16 BEAT, POP, BALLAD,<br>ROCK'N' ROLL & BLUES, SOUL<br>& FUNK, MODERN DANCE, U.S.<br>TRAD, COUNTRY, BIG BAND &<br>SWING, JAZZ COMBO, MARCH<br>& WALTZ, BALL ROOM & SHOW<br>TIME, LATIN, WORLD<br>Supported<br>MAIN VOLUME, BALANCE,<br>MUTE, CONDUCTOR,<br>START/STOP, INTRO & ENDING<br>1, INTRO & ENDING 2, FILL IN 1,<br>FILL IN 2, COUNT INTRO,<br>SYNCHRO&BREAK,<br>TEMPO/PROGRAM, TAP<br>TEMPO, FADE IN/OUT, SPLIT<br>POINT<br>20 PRESET BANKS × 6 PADS<br>WITH SOLO<br>USER BANK × 3, COMPILE<br>BANKS × 2, CONTROL PRESET<br>× 1<br>STOP, AUTO SETTING<br>MODE: ONE FINGER,<br>FINGERED, PIANIST<br>MEMORY, ON BASS, CHORD<br>FINDER, LEFT HOLD | <b>COMPOSER</b>            | 8 PARTS: BASS, ACCOMP 1 -<br>DRUMS 1<br>STORAGE CAPACITY: APPROX<br>13000 NOTES<br>INPUT MODES: EASY<br>COMPOSER, REALTIME<br>RECORD, STEP RECORD<br>FUNCTIONS: PATTERN COPY,<br>CUSTOM STYLE COPY, SEQUENCER<br>COMPOSER COPY, LOADING,<br>SINGLE COMPOSITION<br>MEMORY: 3 BANKS |
| <b>WHEEL</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISK DRIVE</b>          | 3.5 inch FLOPPY DISK DRIVE<br>2HD (1.44MB), 2DD (720K)<br>LOAD, SAVE, DIRECT PLAY<br>SONG MEDLEY, DISK TOOL<br>PREFERENCES, STYLE<br>CONVERT, CUSTOM STYLE<br>LOAD/SAVE                                                                                                           |
| <b>SOUND CONTROLLER</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>SOUND SETTING</b>       | PART SETTING, MIXER<br>MASTER TUNING, KI<br>SCALING, TECHNI-CHORD<br>SOUND LOAD OPTIC                                                                                                                                                                                             |
| <b>PART SELECT</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>SOUND EDIT</b>          | EASY EDIT, TONE, PITCH<br>FILTER, AMPLITUDE, LEFT<br>EFFECT, CONTROLLER                                                                                                                                                                                                           |
| <b>TRANSPOSE</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>REVERB &amp; EFFECT</b> | MEMORY: 40, 1 USER DRUM KIT<br>MIC REVERB & EFFECT<br>SOUND LOAD OPTIC<br>ALLOCATION, MIXER, SOUND<br>DSP, MULTI, CHORUS, REVERB<br>EQUALIZE                                                                                                                                      |
| <b>RHYTHMS</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>CONTROL</b>             | INITIAL, OVERALL TOUCH<br>SENSITIVITY, FOOT<br>CONTROLLERS, PIANO<br>MEMORY MODE, MUSIC STYLE<br>ARRANGER MODE, FADE<br>IN/OUT SETTING                                                                                                                                            |
| <b>FAVORITES</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>CUSTOMIZE</b>           | HOME PAGE SETTING<br>FAVORITE SETTING, DISPLAY/<br>TIME OUT, WALL PAPER<br>SETTING, MIDI SETTING LOADING/<br>OPTION, DATA PROTECTION<br>LANGUAGE SELECT, DISPLAY<br>PREFERENCE                                                                                                    |
| <b>CONTROLS</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>MIDI</b>                | PART SETTING, CONTRA<br>MESSAGES, REALTIME<br>MESSAGES, COMM<br>SETTING, INPUT/OUTPUT<br>SETTING, MIDI PRESETS, MOC<br>SETTING, PROGRAM CHANG<br>MIDI OUT, PANEL MEMO<br>OUTPUT, COMPUTE<br>CONNECTIC                                                                             |
| <b>PERFORMANCE PADS</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPLAY</b>             | LC<br>PAGE, CONTRAST, EXI<br>DISPLAY HOLD                                                                                                                                                                                                                                         |
| <b>AUTO PLAY CHORD</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>HELP</b>                | Support                                                                                                                                                                                                                                                                           |
| <b>MUSIC STYLE ARRANGER</b> | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>DEMO</b>                | Support                                                                                                                                                                                                                                                                           |
| <b>SOUND ARRANGER</b>       | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                                                                                                                                                                                                                                                   |
| <b>MUSIC SYLIST</b>         | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                                                                                                                                                                                                                                                   |
| <b>ONE TOUCH PLAY</b>       | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                                                                                                                                                                                                                                                   |
| <b>TECHNI-CHORD</b>         | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                                                                                                                                                                                                                                                   |
| <b>PANEL MEMORY</b>         | 13 BANKS × 8, SET, NEXT<br>BANK, BANK VIEW, CUSTOM<br>PANEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                   |
| <b>SEQUENCER</b>            | 16 TRACKS<br>RESOLUTION: 1/96 PER BEAT<br>STORAGE CAPACITY:<br>APPROX.40000 NOTES (10<br>SONG MAX.)<br>INPUT MODES: EASY RECORD,<br>REALTIME RECORD, STEP<br>RECORD<br>FUNCTIONS: RECORD& EDIT,<br>COPY & PASTE, RANGE EDIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                   |

|                  |                                                                                                                            |                           |                                                                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TERMINALS</b> | PHONES, FOOT SW 1, 2, FOOT CONTROLLER, EXP PEDAL, LINE OUT (R/R+L,L), AUX IN (R/R+L,L), COMPUTER, MIDI (IN, OUT,THRU), MIC | <b>POWER REQUIREMENT</b>  | 75 W<br>AC120/220/240V 50/60 Hz<br>AC120V 60 Hz (NORTH AMERICA AND MEXICO)<br>AC230-240V 50/60 Hz (EUROPE, AUSTRALIA, NEW ZEALAND, SINGAPORE AND PHILLIPPINES) |
| <b>OUTPUT</b>    | 66 W (18 W × 2 FOR MID/HIGH, 30 W × 1 FOR BASS)                                                                            | <b>DIMENSIONS (W×H×D)</b> | 106.3 cm × 20 cm × 41.8 cm (41-27/32" × 7-7/8" × 16-15/32")                                                                                                    |
| <b>SPEAKERS</b>  | 12 cm × 2, 6.5 cm × 2 FOR MID/HIGH, 14 cm × 1 FOR BASS                                                                     | <b>NET WEIGHT</b>         | 15.4 kg (34 lbs)                                                                                                                                               |
|                  |                                                                                                                            | <b>ACCESSORIES</b>        | AC CORD, MUSIC STAND, STYLE CONVERT DISK, INITIAL DATA DISK                                                                                                    |

### **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# 1 WARNING

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. At places where special caution is required, the necessary safety precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner's Manual.
2. Parts which have a  $\Delta$  ; mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.
3. Use the specified types for internal wiring (double-insulated wiring, etc.).
4. When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure

it by soldering.

5. Do not let the wiring come into contact with heat-emitting devices (fuse resistor, radiator plate, etc.).
6. When replacing the wiring, make sure that it is not in contact with the unfinished or rough edge of a part.
7. When replacing the power cord (except for the plug-type), tug it from various directions to confirm that it does not slip out of place.
8. Spacing

If soldering was done on the AC primary circuit, confirm that the interval between the soldered terminals or between the terminal and surrounding metallic parts is at least the minimum required (between the primary circuit and the chassis: at least 6.5 mm; between primary circuit terminal at least 4.0 mm; between primary circuit terminals and secondary circuit terminals: at least 6.5 mm.).

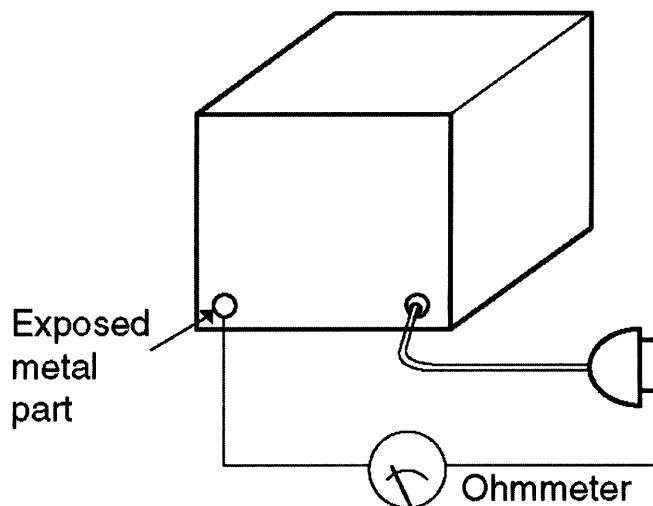
## 2 SAFETY PRECAUTION

### 2.1. Safety Precaution

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only the manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

### 2.2. Insulation Resistance Test

1. Unplug the power cord and short the prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc. Measurements should range from 4 MOhm to infinity for all exposed parts.



Resistance =  $4M\Omega$  to  $\infty$

Figure-1

### 3 OWNERS MANUAL

## Controls and functions

#### SOUND CONTROLLER

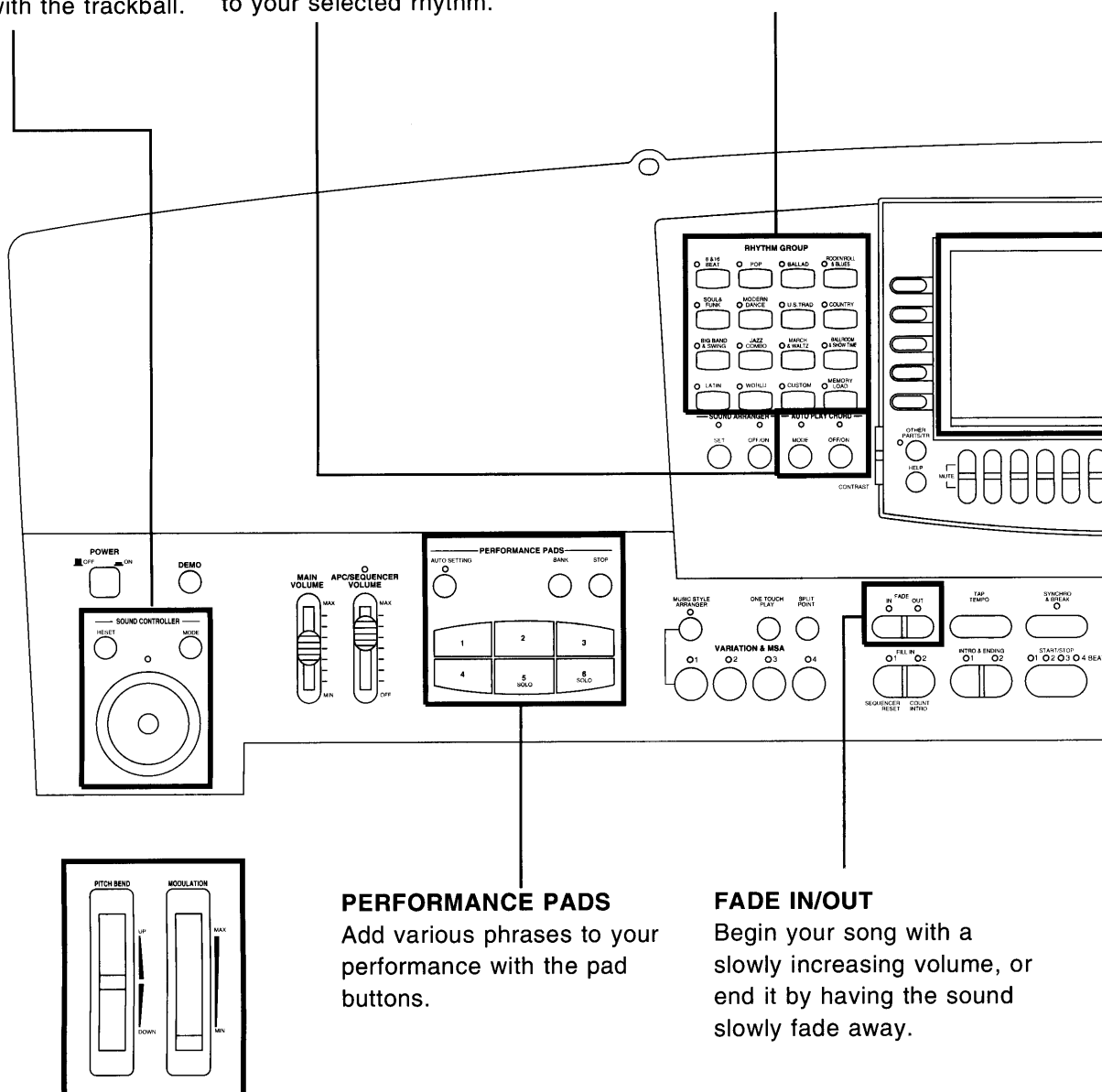
Modify the sound in realtime with the trackball.

#### AUTO PLAY CHORD

Add an automatic accompaniment to your selected rhythm.

#### RHYTHM GROUP

Various rhythm patterns are available for each rhythm group.



#### PITCH BEND/MODULATION

The **PITCH BEND** wheel allows a sliding change in the pitch. The **MODULATION** wheel is used to add vibrato to the sound.

**DISPLAY**

Displays performance information, function settings and other messages.

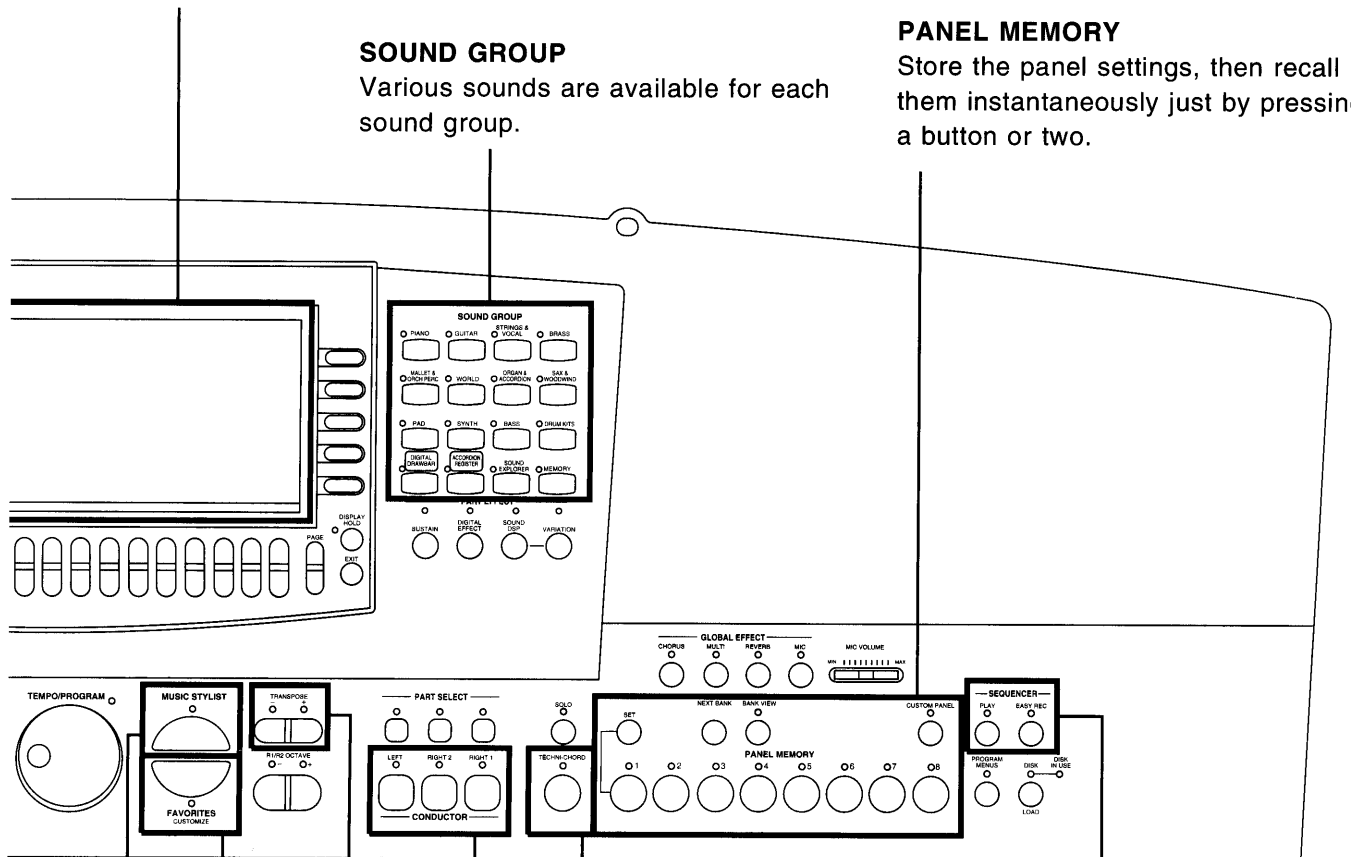
- Adjust the readability with the **CONTRAST** control at the lower left side of the display.

**SOUND GROUP**

Various sounds are available for each sound group.

**PANEL MEMORY**

Store the panel settings, then recall them instantaneously just by pressing a button or two.

**TRANSPOSE**

Raise or lower the key of the entire keyboard.

**CONDUCTOR**

Assign a different sound to each part, then assign the desired parts to sections of the keyboard.

**SEQUENCER**

Record and play back your performance.

**MUSIC STYLIST**

You can choose to have all the settings of this instrument automatically set.

**FAVORITES**

You can record four different special displays of your favorite sounds and rhythms, functions, etc.

**TECHNI-CHORD**

Block chords are automatically added to the melody.

# Initialize

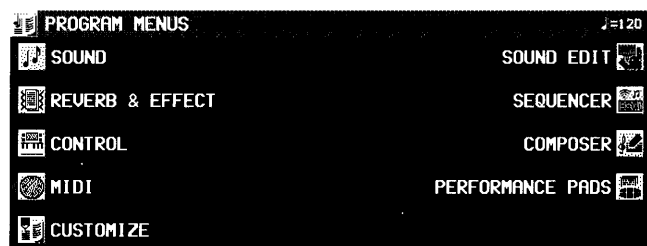
This Keyboard has many settable functions and storable memories. However, you can return the settings and memory to the factory-preset status.

## INITIAL

1. Press the **PROGRAM MENUS** button to turn it on.



- The display changes to the following.



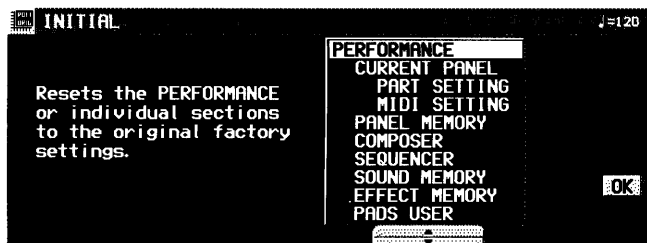
2. Select **CONTROL**.

- The display looks similar to the following.



3. Select **INITIAL**.

- This display changes to the following.

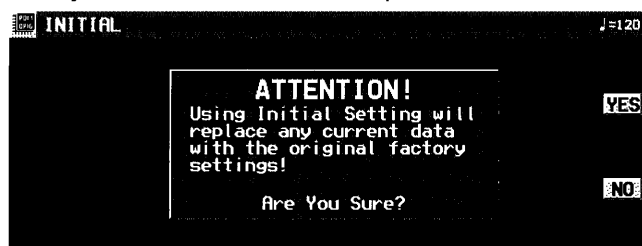


4. Use the **▲** and **▼** buttons to select the desired type of initialization.

- **PERFORMANCE** includes all the items which are listed below it.

5. Press the **OK** button.

- The display changes to the confirmation display. Press the **YES** button if you wish to execute the initialization. Press the **NO** button if you wish to cancel the procedure.



- Initialization begins. When initialization is completed, **COMPLETED!** is shown on the display and the Keyboard returns to the normal performance mode.
- The **USER MIDI**, **FAVORITES**, **HOME PAGE** settings and **CUSTOM** styles are not initialized by this procedure.

You can also reset all the **PERFORMANCE** items with the following procedure:

Turn off the power to this instrument once. Then, while pressing the three lower left buttons in the **RHYTHM GROUP** section (**LATIN**, **WORLD** and **CUSTOM**) at the same time, turn the power on again.

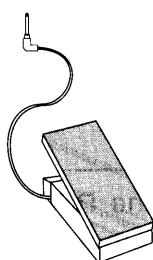
# About the backup memory and performance data

When the power to this instrument is turned off, the various settings and memory contents of instrument are maintained in the backup memory as follows:

|                  |                                                   |                  |
|------------------|---------------------------------------------------|------------------|
| PERFORM-<br>ANCE | CURRENT PANEL settings                            | about one week   |
|                  | PANEL MEMORY                                      |                  |
|                  | SEQUENCER                                         | about 80 minutes |
|                  | COMPOSER (MEMORY contents)                        |                  |
|                  | SOUND MEMORY                                      | about one week   |
|                  | PERFORMANCE PADS (USER memories)                  |                  |
|                  | EFFECT MEMORY                                     |                  |
| BACKUP           | USER MIDI<br>(USER memories for the MIDI PRESETS) | indefinitely     |
|                  | FAVORITES                                         |                  |
|                  | HOME PAGE                                         |                  |
|                  | ALL CUSTOM STYLE                                  |                  |

- If you wish to retain the settings and stored memory contents for recall at a later time, store the des data on a floppy disk.
- The backup memory does not function for the stored contents until the power has been on for at 10 minutes.
- Data from previous Technics models may be limited to PERFORMANCE data.

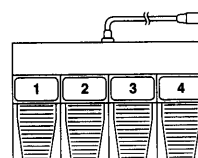
## Separately sold options



**SZ-E2**  
Expression Pedal



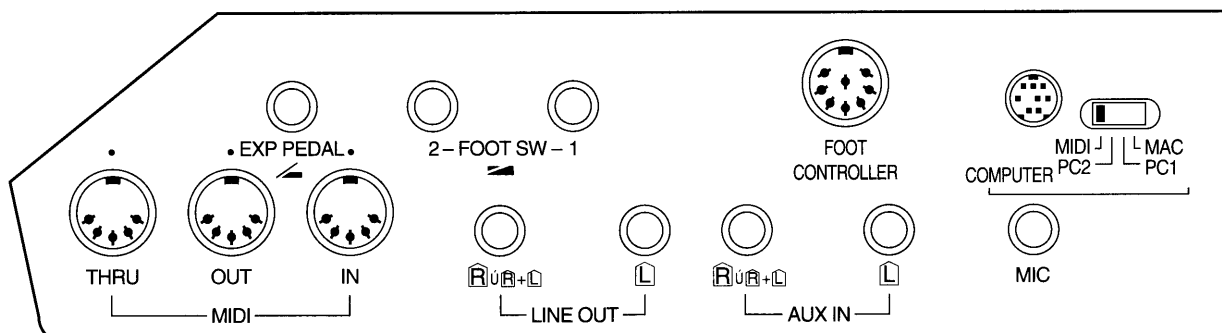
**SZ-P1**  
Foot Switch



**SZ-FC2**  
Foot Controller

- Be sure to turn off the power before connecting the Foot Controller.

# Connections



## EXP PEDAL

The optional SZ-E2 Expression Pedal (sold separately) can be connected to this terminal to control the volume.

## FOOT SW 1, 2

An optional SZ-P1 Foot Switch (sold separately) can be connected to each terminal to control various functions.

## AUX IN (input level 0.5 Vrms, 6 kΩ)

Other instruments such as a sound generator can be connected to this terminal, and the sound will be output from the Keyboard's speakers. To receive monaural sound, connect the other instrument to the **R/R+L** terminal. (Do not connect the **L** terminal.)

## LINE OUT (output level 1.5 Vrms, 600 Ω)

By connecting an external high-power amplifier, the sound can be reproduced at a high volume. To output monaural sound, connect the external equipment to the **R/R+L** terminal. (Do not connect the **L** terminal.)

## MIDI

These terminals are for connection to another MIDI instrument.

## FOOT CONTROLLER

An optional SZ-FC2 Foot Controller (sold separately) can be connected to this terminal to control various functions.

## MIC

A microphone can be connected to this terminal for voice output through the speakers.

- The effects applied to the MIC INPUT and the microphone volume can be set.

## COMPUTER

By connecting this terminal to the serial port of a computer, performance data can be exchanged. Use the switch to select the type of computer.

- Be sure that the power to this instrument is turned off when connecting to a computer or when changing the switch setting.

### Caution:

Failure to turn off the power before changing the switch setting may result in malfunction.

- When no computer is connected, or when a MIDI interface is used, the switch should be set to **MIDI**.

### Connection to a Macintosh series computer

Use an ACCESSORY CABLE (SZ-JJAP1: sold separately) to connect the **COMPUTER** terminal of this instrument to the modem port or printer port of a Macintosh Series computer. Set the switch to **MAC**.

- Set the MIDI interface clock of the Macintosh software to 1 MHz.
- Do not remove the core at either end of the cable.

### Connection to a PC

Use an ACCESSORY CABLE (SZ-JJAT1: sold separately) to connect the **COMPUTER** terminal of this instrument to the RS232C terminal of a PC. Set the switch to **PC2**.

- The MIDI driver included with the cable should be installed in the computer. (Refer to the manual accompanying the cable.)
- Do not remove the core at either end of the cable.

\* All product and company names are trademarks or registered trademarks of their respective owners.

# Symptoms which appear to be signs of trouble

The following changes in performance may occur in the Technics Keyboard but do not indicate trouble.

|                    | Phenomenon                                                                                           | Remedy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sounds and effects | The buttons, keys, etc. malfunction.                                                                 | <ul style="list-style-type: none"> <li>• Turn off the <b>POWER</b> button once, then turn it on again. If this procedure is not successful, turn off the <b>POWER</b> button once. Then, while pressing the three lower left buttons in the <b>RHYTHM GROUP</b> section (<b>LATIN</b>, <b>WORLD</b> and <b>CUSTOM</b>) at the same time, turn the <b>POWER</b> button on again. (Note that, in this case, all programmable settings, functions and memories return to their factory-preset status.)</li> </ul> |
|                    | No sound is produced when the keys are pressed.                                                      | <ul style="list-style-type: none"> <li>• The <b>MAIN VOLUME</b> is at the minimum setting. Adjust the volume with the <b>MAIN VOLUME</b> control.</li> <li>• The volumes for the selected parts are set to the minimum levels. Use the balance buttons to set the volumes of the relevant parts to appropriate levels.</li> <li>• The part is muted.</li> <li>• The <b>LOCAL CONTROL</b> for a part performed on the keyboard is set to OFF. Set the <b>LOCAL CONTROL</b> to ON.</li> </ul>                    |
|                    | Only percussive instrument sounds are produced when the keyboard is played.                          | <ul style="list-style-type: none"> <li>• In the <b>SOUND GROUP</b> section, the <b>DRUM KITS</b> button is on.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                      |
|                    | The volume is very low when the keyboard is played.                                                  | <ul style="list-style-type: none"> <li>• The volume setting in the <b>SEQUENCER</b> contents is very low. Follow the INITIAL procedure to reset the settings.</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
|                    | The sound you hear is different from the sound you selected.                                         | <ul style="list-style-type: none"> <li>• This sometimes occurs when you play back <b>SEQUENCER</b> or <b>COMPOSER</b> data which was created on a different model, or when MIDI data is received from a connected instrument. Select the desired sounds again.</li> </ul>                                                                                                                                                                                                                                      |
| Rhythm             | The rhythm does not start.                                                                           | <ul style="list-style-type: none"> <li>• The <b>DRUMS</b> volume is set to the minimum level. Use the balance buttons to set the <b>DRUMS</b> volume to an appropriate level.</li> <li>• A <b>SEQUENCER PLAY</b> button is on. When you are not playing back the <b>SEQUENCER</b> performance, turn off the <b>SEQUENCER PLAY</b> button.</li> <li>• <b>CLOCK</b> is set to MIDI. Set <b>CLOCK</b> to INTERNAL.</li> </ul>                                                                                     |
| AUTO PLAY CHORD    | No sound is produced for the automatic accompaniment, or only the sounds of some parts are produced. | <ul style="list-style-type: none"> <li>• An <b>ACCOMP</b> part does not sound if its corresponding volume is set to the minimum level. Use the respective balance buttons to set the <b>ACCOMP 1-5</b> volumes to appropriate levels.</li> </ul>                                                                                                                                                                                                                                                               |
| SEQUENCER          | Storage is not possible.                                                                             | <ul style="list-style-type: none"> <li>• The remaining memory capacity of the <b>SEQUENCER</b> is 0. Follow the <b>SONG CLEAR</b> or <b>TRACK CLEAR</b> procedure to erase the memory.</li> </ul>                                                                                                                                                                                                                                                                                                              |
|                    | The playback measure indication is different from when the performance was recorded.                 | <ul style="list-style-type: none"> <li>• The number of measures corresponds to the time signature of the rhythm selected at the start of recording. To change the rhythm in the middle of the song, record the rhythm change in the <b>RHYTHM</b> part.</li> </ul>                                                                                                                                                                                                                                             |

| Phenomenon |                                                                                                      | Remedy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPOSER   | Storage is not possible.                                                                             | <ul style="list-style-type: none"> <li>• The remaining memory capacity of the <b>COMPOSER</b> is 0.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | Setting the time signature and number of measures is not possible.                                   | <ul style="list-style-type: none"> <li>• The time signature and number of measures cannot be changed for a pattern which is currently recorded in the <b>COMPOSER</b>. If you wish to change the time signature and/or measure data, first follow the procedure to clear the memory.</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
|            | The playback timing of the rhythm pattern is different from the timing with which it was recorded.   | <ul style="list-style-type: none"> <li>• The <b>QUANTIZE</b> function was on when the pattern was recorded and the timing was automatically corrected. Set the quantize level to a smaller note unit or to <b>OFF</b> when recording.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                      |
| Disk Drive | The Disk Drive produces a noise during recording or playback.                                        | <ul style="list-style-type: none"> <li>• This occurs when the Disk Drive is reading a disk. It does not indicate a problem.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | When the procedure to load from a disk is performed, the contents of the keyboard memory are erased. | <ul style="list-style-type: none"> <li>• When performing the load operation from a disk, the keyboard memory changes to that of the data loaded from the disk. If you wish to preserve a song which is stored in the keyboard memory, save it on a disk before performing the load procedure.</li> </ul>                                                                                                                                                                                                                                                                                                                              |
| MIDI       | Data cannot be exchanged through MIDI terminals.                                                     | <ul style="list-style-type: none"> <li>• The switch for the <b>COMPUTER</b> terminal is not set to <b>MIDI</b>. Turn off the power to this instrument and set the switch to <b>MIDI</b>.</li> <li>• Match the channels on the transmitting side and the receiving side.</li> </ul>                                                                                                                                                                                                                                                                                                                                                    |
|            | The sound quavers or is distorted.                                                                   | <ul style="list-style-type: none"> <li>• When the <b>COMPUTER</b> terminal or both the <b>MIDI IN</b> and <b>OUT</b> terminals are connected to a computer, depending on the computer software the received data may be sent back to the instrument just as it is. Because of this the sound generated from the keys and the sound generated from the returned data are both produced, causing undesirable effects, such as the sounds canceling each other out, for example. In this case, either change the software settings to prevent received data from being returned, or set the <b>MIDI LOCAL CONTROL</b> to off.</li> </ul> |
| Other      | Noise from a radio or TV can be heard.                                                               | <ul style="list-style-type: none"> <li>• This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument.</li> <li>• The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center.</li> </ul>                                                                                                                                                                                                                                         |
|            | The cabinet becomes warm during use.                                                                 | <ul style="list-style-type: none"> <li>• This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

# Error messages

| No. | Contents                                                                                                                               |
|-----|----------------------------------------------------------------------------------------------------------------------------------------|
| 00  | The data on the disk that you are using is for a different product.                                                                    |
| 01  | An error has occurred while the disk was loading.<br>Please try again!                                                                 |
| 02  | There is no disk in the Disk Drive.                                                                                                    |
| 03  | The file that you tried to load is empty.                                                                                              |
| 05  | An error has occurred while the disk was saving.<br>Please try again!                                                                  |
| 06  | The disk that you are using is write protected.<br>Please remove the write protection and try again.                                   |
| 07  | The disk that you are using is full. Please use another disk.                                                                          |
| 08  | An error has occurred while the disk was formatting. The disk that you are using may be faulty.<br>Please try formatting another disk. |
| 10  | The data is already copy protected.                                                                                                    |
| 15  | The song you are trying to save is empty.                                                                                              |
| 16  | This STANDARD MIDI FILE is incompatible with this instrument and cannot be loaded.                                                     |
| 17  | This is not a STANDARD MIDI FILE.                                                                                                      |
| 18  | The timebase (PPQ resolution) that you tried to load is not 24/48/96/192/288/384 PPQ.                                                  |
| 20  | A problem has occurred with your <b>SEQUENCER</b> Data.<br>This might be due to a damaged or faulty disk.                              |
| 21  | Memory full                                                                                                                            |
| 22  | It is necessary to press REC STOP to complete this procedure.                                                                          |
| 23  | It is impossible to change the time signature because it has already been set in the existing tracks.                                  |
| 24  | A rhythm track already exists. It is impossible to assign two tracks to rhythm.                                                        |
| 25  | It is only possible to change the velocity on a melody track.                                                                          |

| No. | Contents                                                                                                                                                                                                                                                     |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26  | It is only possible to merge melody tracks.<br>Tracks such as rhythm, chord and control cannot be merged.                                                                                                                                                    |
| 27  | It is only possible to copy melody tracks. Tracks such as rhythm, chord and control cannot be copied.                                                                                                                                                        |
| 28  | This song is too long to be saved as a MIDI file.                                                                                                                                                                                                            |
| 29  | The MIDI file that you have tried to load exceeds the memory capacity of this instrument and cannot be played. The <b>SEQUENCER</b> memory has been cleared.                                                                                                 |
| 30  | It is not possible to change the time signature or measure length of a <b>COMPOSER</b> pattern after it has been recorded. If you want to proceed, you must first clear the entire <b>COMPOSER</b> pattern.                                                  |
| 31  | The time signature of the pattern from which you are copying is different from the <b>COMPOSER</b> memory that you are using.<br>Either: Change the time signature of the <b>COMPOSER</b> memory<br>or: Copy from a pattern that has the same time signature |
| 32  | Memory full                                                                                                                                                                                                                                                  |
| 33  | Select a Track before setting parameters for AUTO PUNCH RECORD.                                                                                                                                                                                              |
| 43  | The file that you are trying to load was saved on a previous KN keyboard. It is only possible to load using the PERFORMANCE option.                                                                                                                          |
| 44  | It is impossible to edit a Drum Kit. Please select a different sound from any group except Keyboard Percussion.                                                                                                                                              |
| 46  | It is only possible to insert MELODY Tracks. Tracks such as RHYTHM, CHORD and CONTROL cannot be inserted.                                                                                                                                                    |
| 47  | This procedure is not possible with a composer pattern or the metronome. Please select a preset rhythm pattern.                                                                                                                                              |
| 54  | It is not possible to record using preset banks, compile banks, or control banks. Please select one of the user banks.                                                                                                                                       |

| No. | Contents                                                                                                                                                                            |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 55  | Special tracks such as CHORD (APC), RHY and CTL exist in the song from which you are copying and are incompatible with the destination song because it is in the GM mode.           |
| 56  | AUTO PUNCH recording has been unsuccessful because SEQUENCER operation was interrupted before the PUNCH OUT measure was reached.                                                    |
| 58  | The song that you have tried to load exceeds this instrument's available memory and cannot be loaded. The selected song memory has been cleared.                                    |
| 62  | The computer connection is not active because the computer port switch is set to MIDI. Please turn the power off, set the switch to the desired setting and turn the power back on. |
| 63  | This Bitmap is in the wrong format for the KN and cannot be loaded. See the Owners Manual for more details.                                                                         |
| 64  | Please select the Panel Memory that you want to name.                                                                                                                               |
| 65  | It is not possible to use the CHORD FINDER in this mode. Please select CHORD FINDER from HOME page or CHORD STEP RECORD page.                                                       |
| 66  | SOLO pads are special pads which include Chord information. Please use SOLO pads when the rhythm and accompaniment is playing.                                                      |
| 67  | There are no APC or CHORD tracks. Select an APC track or CHORD track, and try again.                                                                                                |
| 68  | It is not possible to record directly into the SOLO pads. Record on the SEQUENCER and Copy the melody and chord information into a SOLO pad.                                        |
| 69  | It is not possible to delete all measures.                                                                                                                                          |
| 70  | It is not possible to insert over 16 measures in a PATTERN.                                                                                                                         |
| 71  | It is not possible to set the start measure to the measures you set to copy.                                                                                                        |

# MIDI IMPLEMENTATION CHART

Keyboard [ SX-KN6000 ]

| Function         |                | Transmitted                                                                                       | Recognized      | Remarks                                                                                                                                                                                                                                                            |
|------------------|----------------|---------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Channel    | Default        | 1-16                                                                                              | 1-16            | Assigned to the part.                                                                                                                                                                                                                                              |
|                  | Changed        | 1-16                                                                                              | 1-16            |                                                                                                                                                                                                                                                                    |
| Mode             | Default        | 3                                                                                                 | Mode 3          | OMNI OFF, POLY MODE<br>* M=1 only                                                                                                                                                                                                                                  |
|                  | Messages       | Mode 3, 4 (M=1)                                                                                   | Mode 3, 4 (M=1) |                                                                                                                                                                                                                                                                    |
|                  | Altered        | —                                                                                                 | —               |                                                                                                                                                                                                                                                                    |
| Note Number      |                | 0-127                                                                                             | 0-127           |                                                                                                                                                                                                                                                                    |
|                  | True voice     | —                                                                                                 | 0-127           |                                                                                                                                                                                                                                                                    |
| Velocity         | Note ON        | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | Note OFF       | ×                                                                                                 | ×               |                                                                                                                                                                                                                                                                    |
| After Touch      | Key's          | ×                                                                                                 | ×               |                                                                                                                                                                                                                                                                    |
|                  | Ch's           | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
| Pitch Bend       |                | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
| Control Change   | 0,32           | ○ × *                                                                                             | ○ × *           | Bank Select MSB, LSB<br>Modulation<br>Portamento time<br>Data entry MSB, LSB<br>Volume<br>Panpot<br>Expression<br>Sound DSP<br>Sustain<br>Portamento on / off<br>Sostenuto<br>Soft Pedal<br>Sound controllers<br>Part Equalizer<br>Effect 1~5 Depth<br>NRPN<br>RPN |
|                  | 1              | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 5              | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | 6,38           | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 7              | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 10             | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 11             | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 12,13          | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 64             | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 65             | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | 66             | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | 67             | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | 71~78          | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 80~83          | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | 91~95          | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 98,99          | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | 100,101        | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
| Prog Change      |                | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | True #         | —                                                                                                 | 0-127           |                                                                                                                                                                                                                                                                    |
| System exclusive |                | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
| System common    | Song Pos       | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | Song Sel       | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
|                  | Tune           | ×                                                                                                 | ×               |                                                                                                                                                                                                                                                                    |
| System Real Time | Clock          | ○ × *                                                                                             | ○ × *           | Start / Stop, continue                                                                                                                                                                                                                                             |
|                  | Commands       | ○ × *                                                                                             | ○ × *           |                                                                                                                                                                                                                                                                    |
| Aux Messages     | Local ON / OFF | ×                                                                                                 | ×               |                                                                                                                                                                                                                                                                    |
|                  | All notes OFF  | ×                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | Active Sense   | ○                                                                                                 | ○               |                                                                                                                                                                                                                                                                    |
|                  | Reset          | ×                                                                                                 | ×               |                                                                                                                                                                                                                                                                    |
| Notes            |                | ○ × * ..... Whether or not the data for each of these items is transmitted / received can be set. |                 |                                                                                                                                                                                                                                                                    |

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO  
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

○: Yes  
×: No

## 4 KEYBOARD RANGES

This keyboard features Touch Response, by which you control the volume by playing the keys harder or softer.

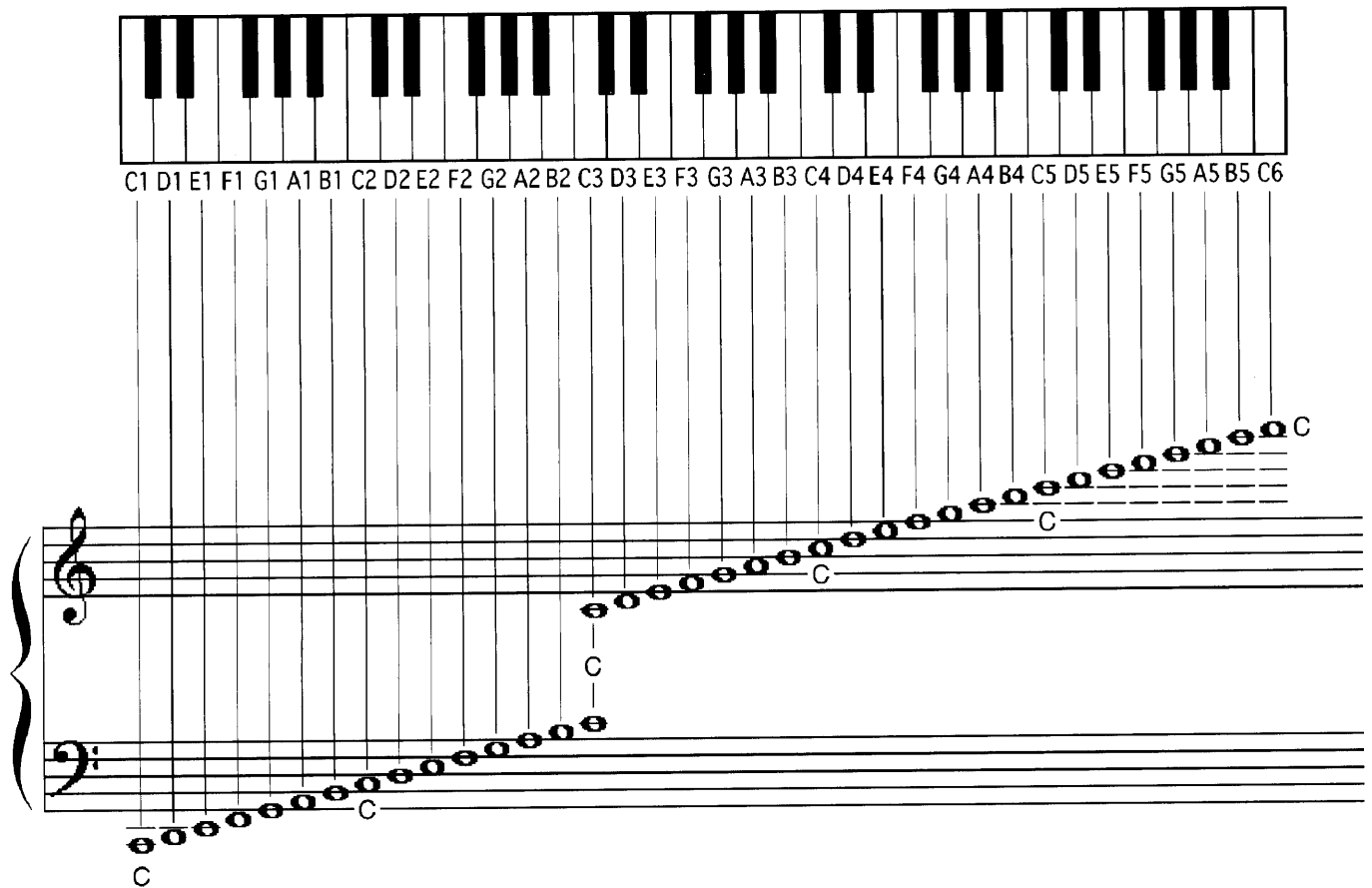


Figure-2

## 5 PARTS LOCATION

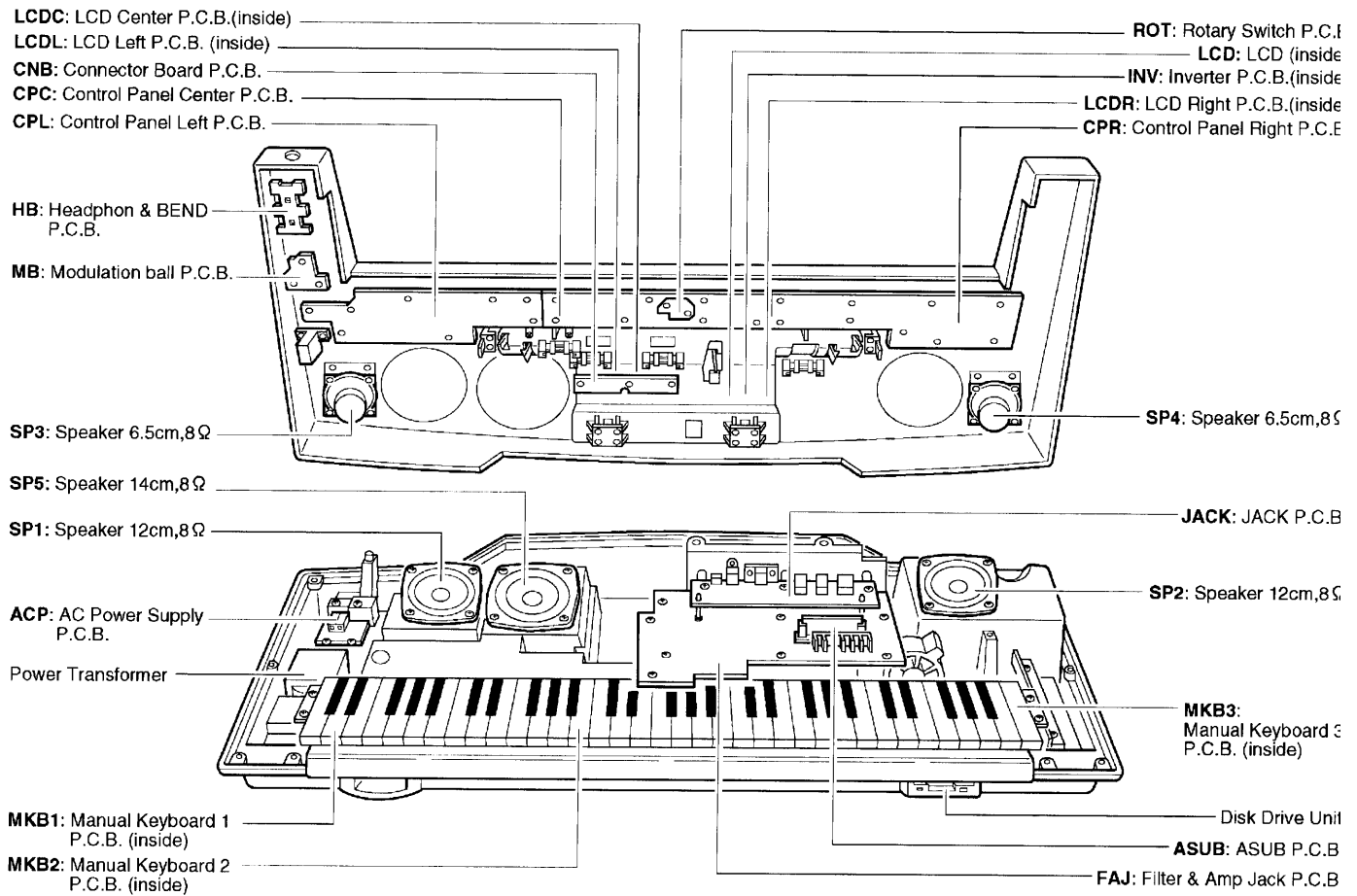


Figure-3

**MAIN:** MAIN P.C.B. (inside)

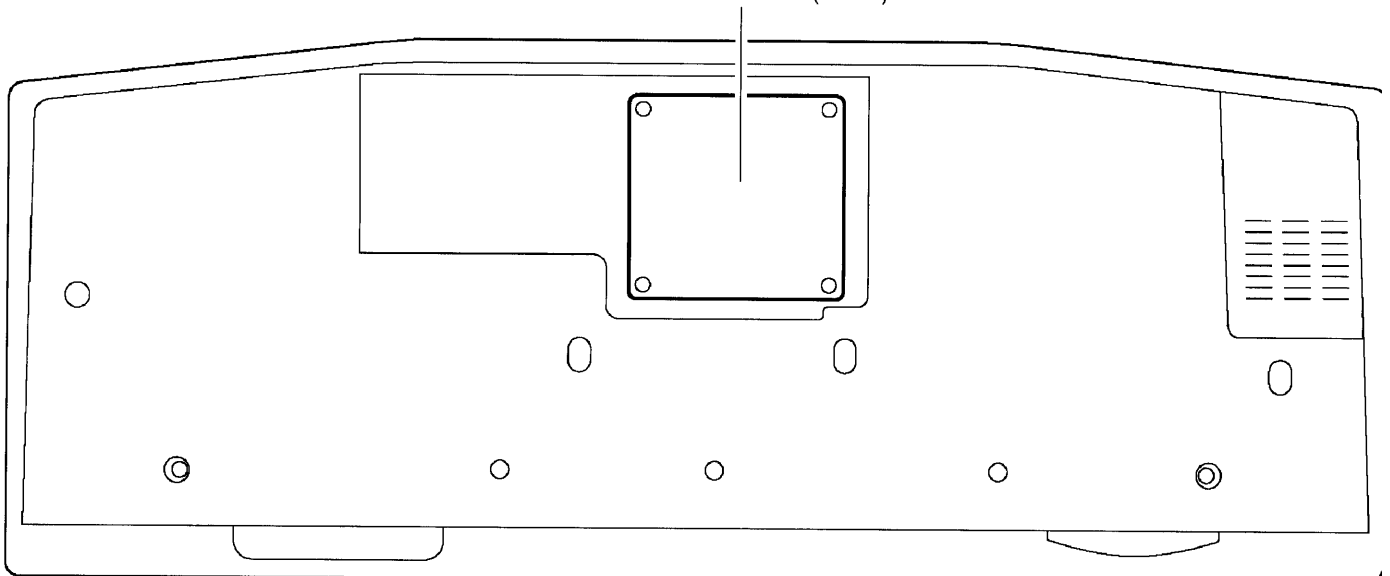


Figure-4

## 6 DISASSEMBLY INSTRUCTIONS

### 6.1. Opening the top cabinet

1. Turn the keyboard cabinet upside down, and remove the bottom screws (A 14 pcs.) as shown in Figure-5.
2. Place the keyboard bottomside down, and open the top cabinet .

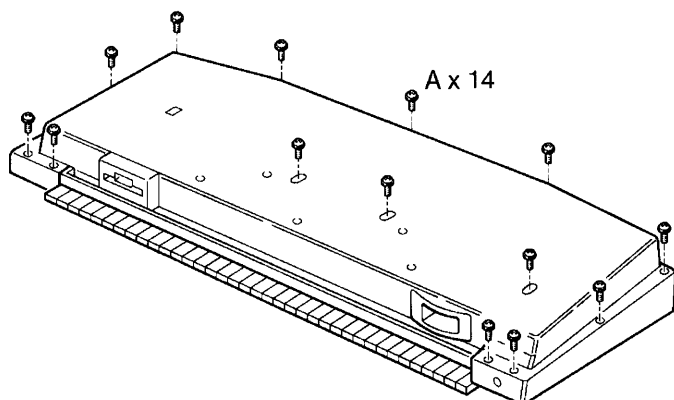


Figure-5

- Pull the Display Angle Lever upward and swivel the display as shown in Figure-6. Then you can keep the top cabinet upright using the display as a stand.

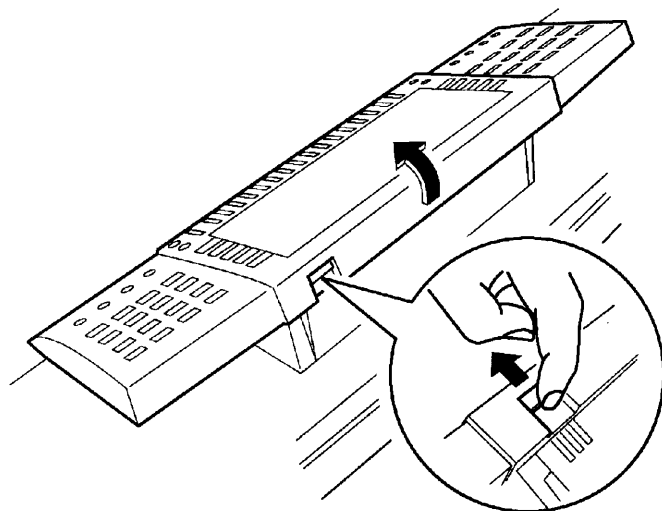


Figure-6

### 6.2. Removing the HB, MB, CPL, ROT, CPC, CPR, CNB, ACP, FAJ, JACK, ASUB printed circuit boards

- Open the top cabinet (see step "Opening the top cabinet").
- Pull out the connectors on the printed circuit boards.

#### HB P.C.B.

- Remove the HB P.C.B. mounting screws (A 2 pcs.) as shown in Figure-7.

#### MB P.C.B.

- Remove the MB P.C.B. mounting screws (B 3 pcs.) as shown in Figure-7.

#### CPL P.C.B.

1. Pull off the MAIN VOLUME knob and APC/SEQUENCER VOLUME knob as shown in Figure-7.

2. Remove the CPL P.C.B. mounting screws (C 9 pcs.).

#### ROT P.C.B. and CPC P.C.B.

1. Pull off the TEMPO/PROGRAM dial as shown in Figure-7.
2. Remove the ROT P.C.B. mounting screws (E 2 pcs.).
3. Remove the CPC P.C.B. mounting screws (D 7 pcs.).

#### CPR P.C.B.

- Remove the CPR. P.C.B. mounting screws (F 9 pcs.) as shown in Figure-7.

#### CNB P.C.B.

- Remove the CNB P.C.B. mounting screws (G 3 pcs.) as shown in Figure-7.

#### ACP P.C.B.

- Remove the ACP P.C.B. mounting screws (H 4 pcs.) as shown in Figure-7.

#### FAJ P.C.B.

- Remove the FAJ P.C.B. mounting screws (L 8 pcs.) as shown in Figure-7.

#### JACK P.C.B.

- Remove the JACK P.C.B. mounting screws (I 3 pcs., J 2 pcs. and K 3 pcs.) as shown in Figure-7.

#### ASUB P.C.B.

- Release the claws and pull off the ASUB P.C.B. as shown in Figure-7.

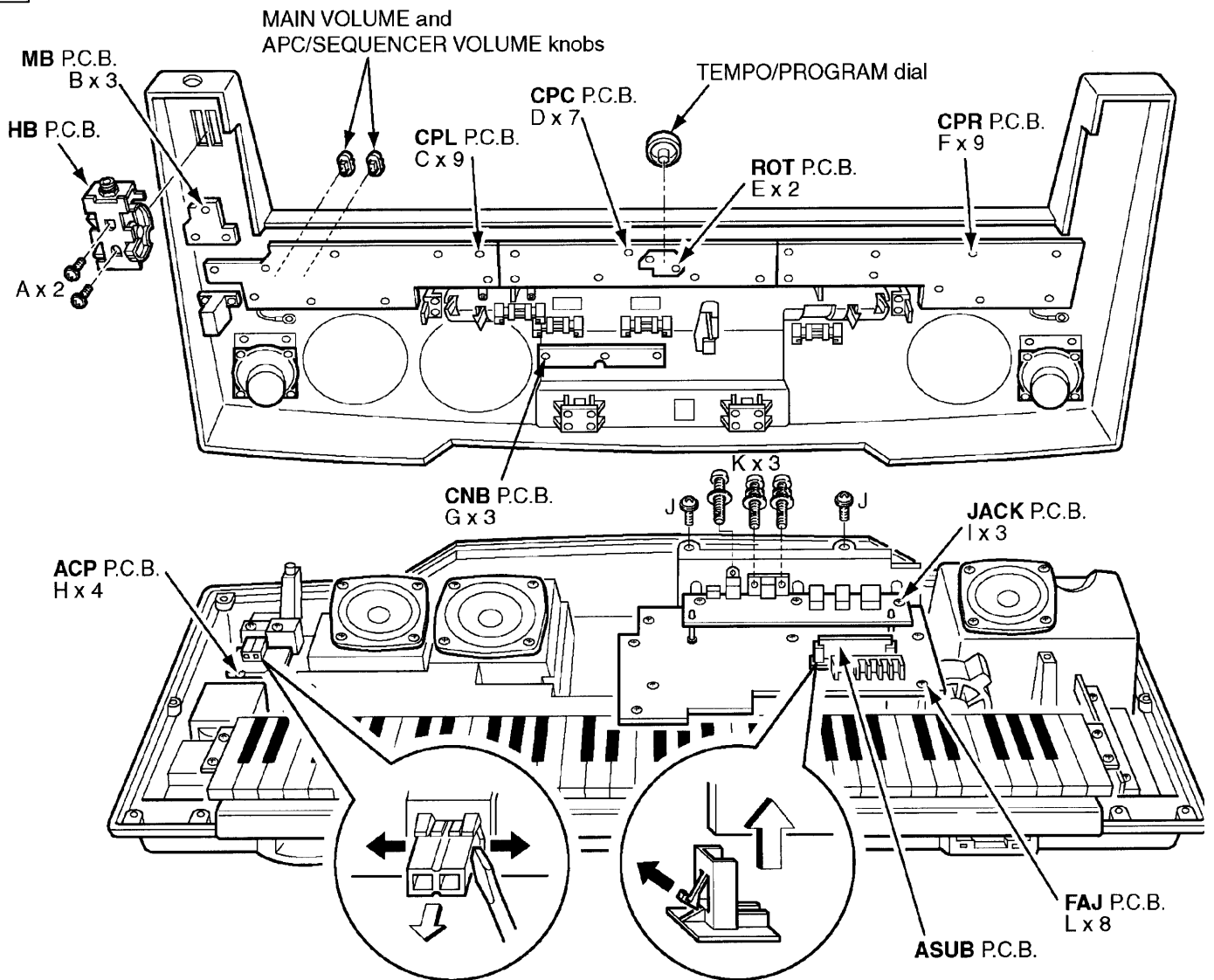


Figure-7

### 6.3. Removing the MAIN printed circuit board

#### MAIN P.C.B.

1. Remove the bottom board mounting screws (A 6 pcs.) as shown in Figure-8.
2. Remove the MAIN P.C.B. mounting screws (B 4 pcs.).

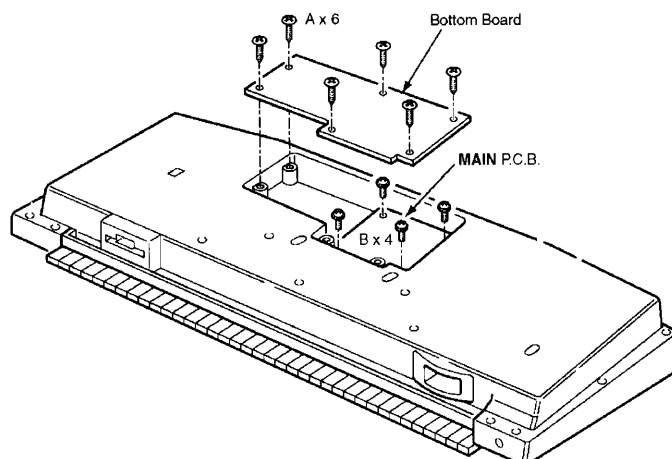


Figure-8

### 6.4. Removing the DISPLAY

- Open the top cabinet (see step "Opening the top cabinet").
- Pull out the connectors on the DISPLAY panel.

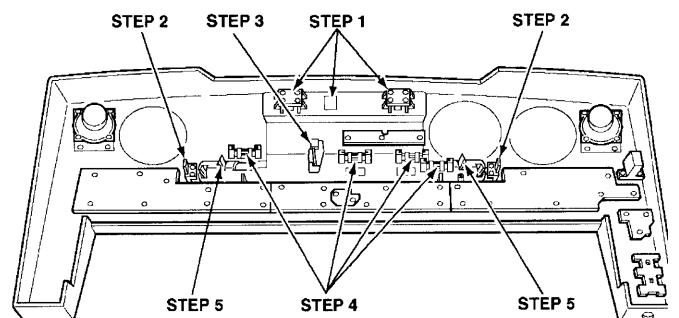


Figure-9

#### STEP 1: Removing the gear rails

1. Remove the gear rail mounting screws (A 4 pcs.) as shown in Figure-10.
2. While pulling the rod to release it from the gear rail, pull the gear rail.

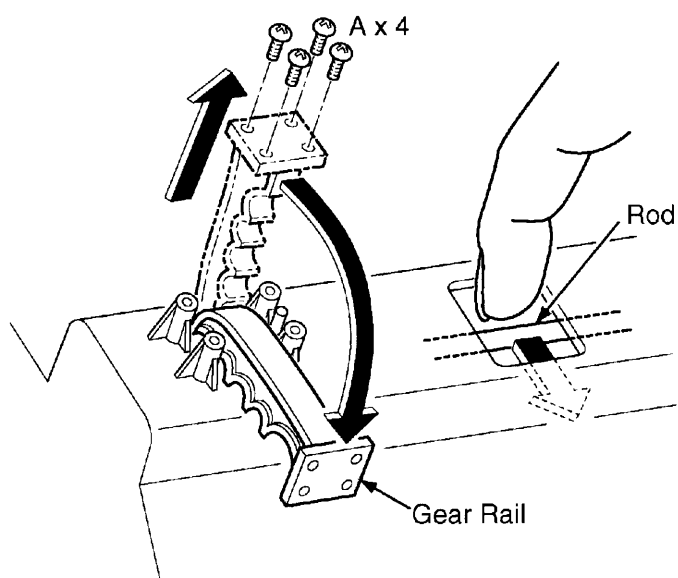


Figure-10

**STEP 2: Removing the fixing axes**

- Remove the fixing axis mounting screws (B 2 pcs.) as shown in Figure-11.

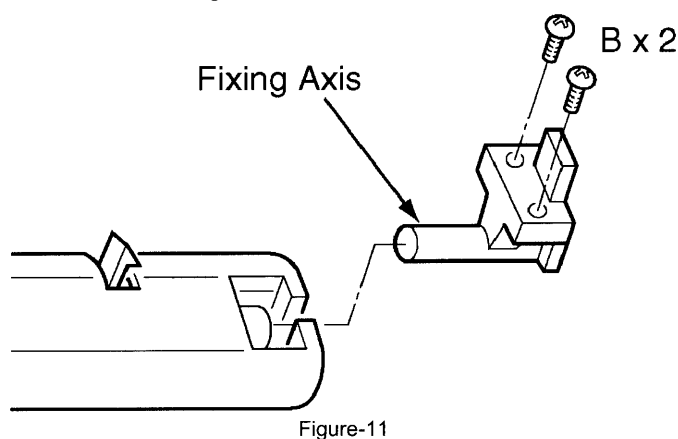


Figure-11

**STEP 3: Releasing the spring**

- Release the spring as shown in Figure-12.

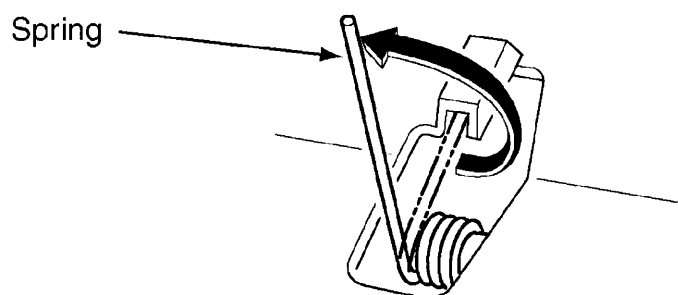


Figure-12

**STEP 4: Removing the cable clamber**

- Release the claws and pull off the cable clamber as shown in Figure-13.

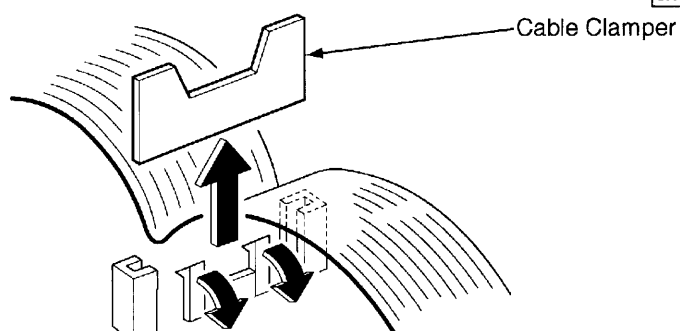


Figure-13

**STEP 5: Releasing the claws**

- Release the claw as shown in Figure-14.

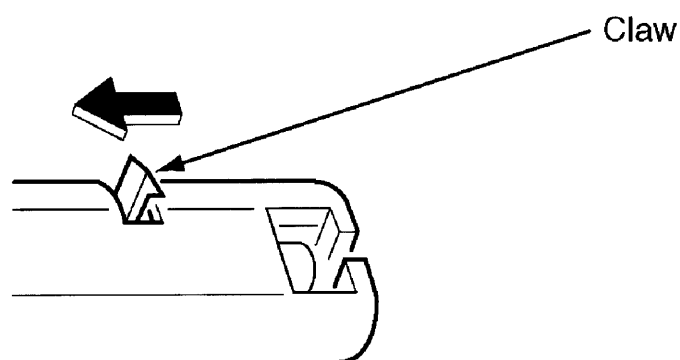


Figure-14

- The DISPLAY can be removed from the top cabinet.

**6.5. Removing the DISPLAY panel**

1. Remove the DISPLAY (see step "Removing the DISPLAY").
2. Remove the DISPLAY panel mounting screws (A 6 pcs.) as shown in Figure-15.

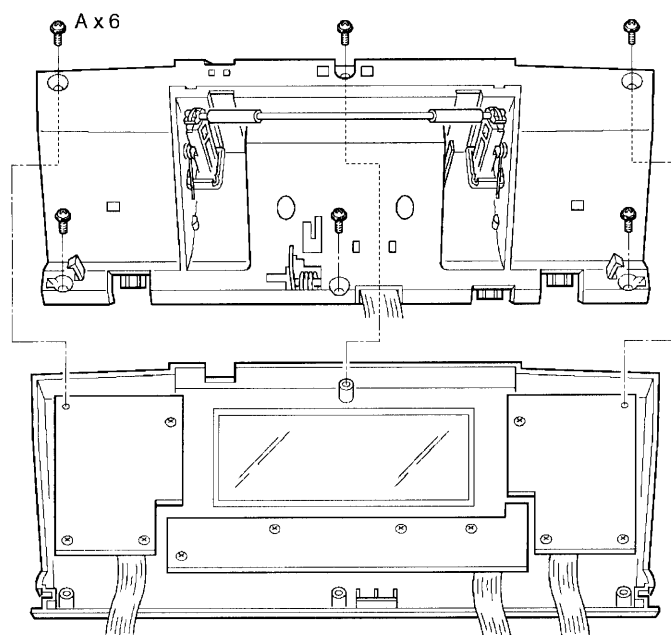


Figure-15

**6.6. Removing the LCDL, LCDC and LCDR printed circuit boards**

- Remove the DISPLAY panel (see step "Removing the

DISPLAY").

#### LCDL P.C.B.

- Remove the LCDL P.C.B. mounting screws (A 3 pcs.) as shown in Figure-16.

#### LCDC P.C.B.

- Remove the LCDC P.C.B. mounting screws (B 4 pcs.) as shown in Figure-16.

#### LCDR P.C.B.

- Remove the LCDR P.C.B. mounting screws (C 3 pcs.) as shown in Figure-16.

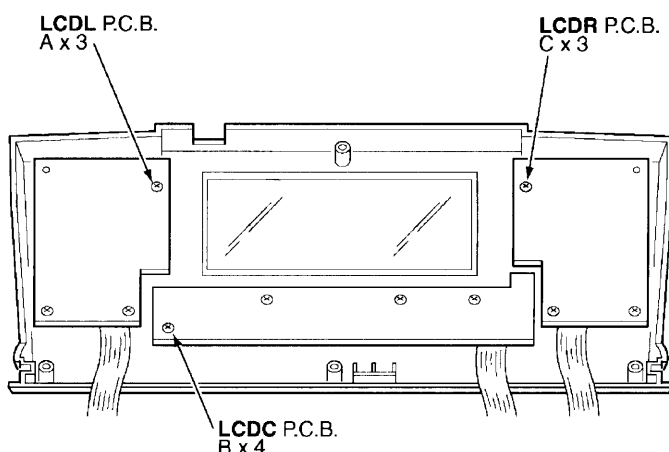


Figure-16

### 6.7. Removing the LCD and the INV P.C.B.

- Remove the DISPLAY panel (see step "Removing the DISPLAY").

#### LCD

- Remove the LCD mounting screws (A 4 pcs.) as shown in Figure-17.

#### INV P.C.B.

1. Remove the bracket mounting screw (B 1 pc.) as shown in Figure-17.
2. Pull off the INV P.C.B..

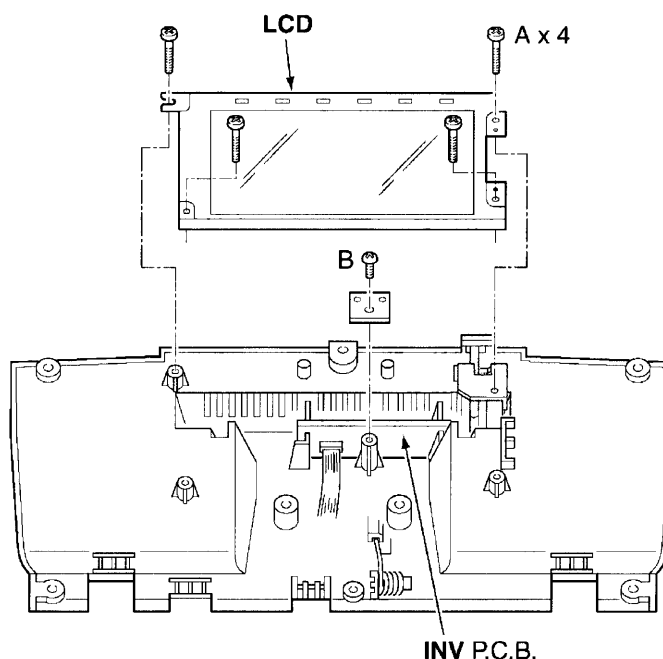


Figure-17

### 6.8. Removing the keyboard unit

1. Turn the keyboard cabinet upside down, and remove the bottom screws (A 15 pcs.) as shown in Figure-5.
2. Remove the keyboard unit mounting screws (B 5 pcs.) as shown in Figure-18.
3. Place the keyboard cabinet bottomside down, and open the top cabinet.
4. Remove the keyboard unit holding screws (C 3 pcs.).

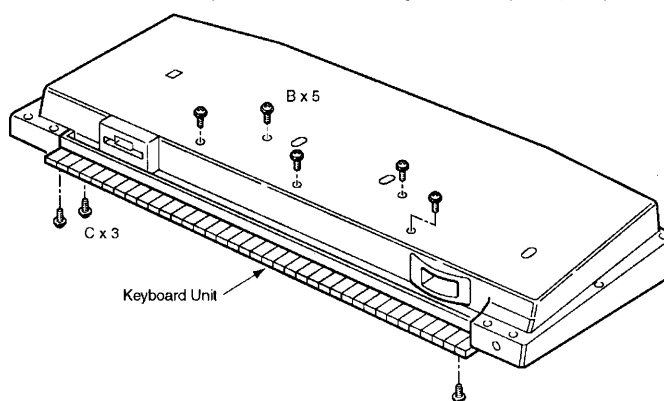


Figure-18

- As shown in Figure-19, the keyboard unit can be anchored in the metal projection.

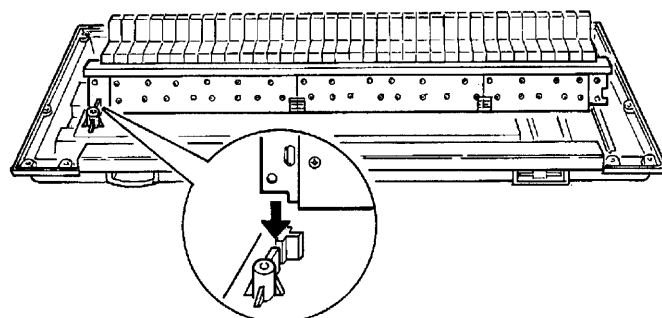


Figure-19

## 6.9. Removing the Disk Drive Unit

1. Remove the keyboard unit (see "Removing the keyboard unit").
2. Remove the Disk Drive unit mounting screws (A 4 pcs. ) as shown in Figure-20.

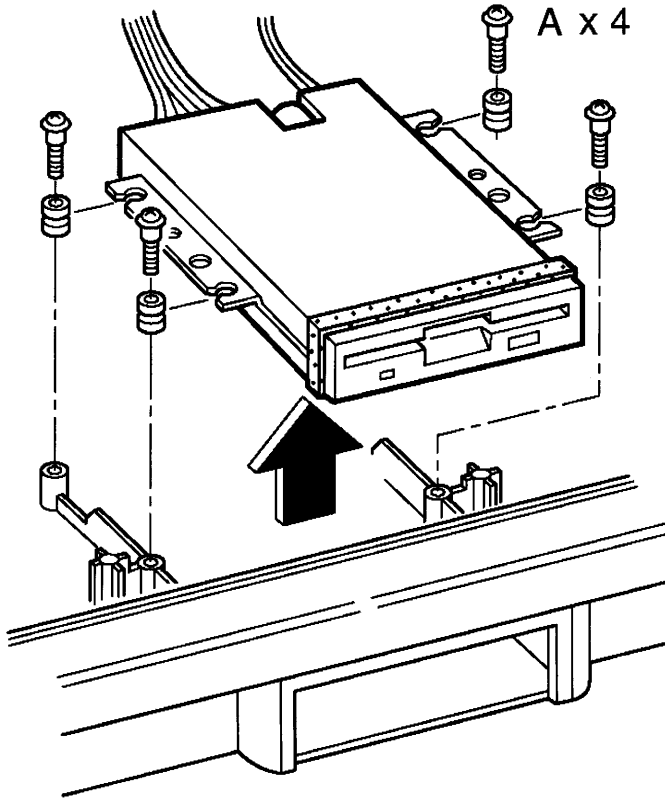


Figure-20

- Otherwise, the Disk Drive unit can be removed by removing the Disk Drive unit mounting screws (B 4 pcs.) as shown in Figure-21.

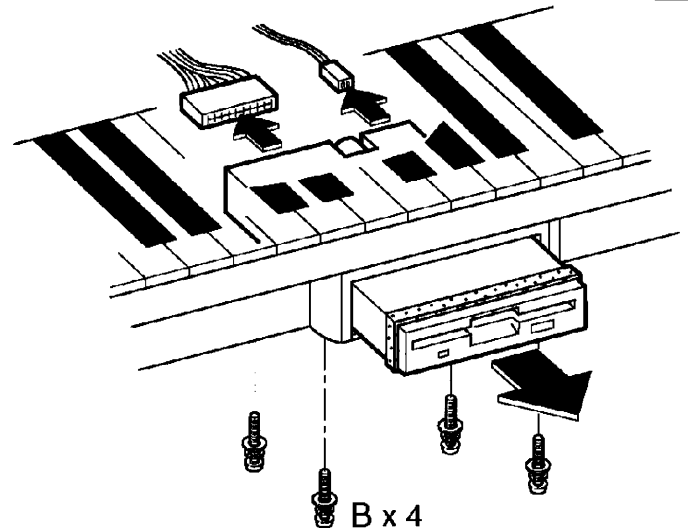


Figure-21

## 6.10. Removing the keys

1. Remove the keyboard unit (see "Removing the keyboard unit").
2. Press downward on the rear of the key as shown in Figure-22.
3. While pressing downward on the rear of the key, push the key forward and release it from the chassis.
4. Lift the key and remove it from the chassis.

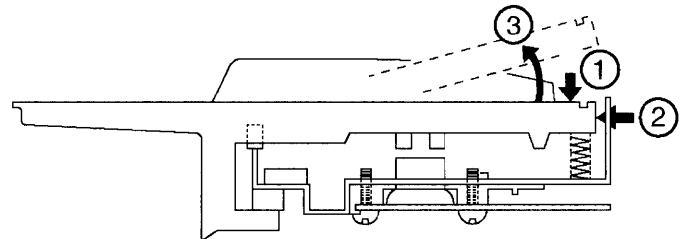


Figure-22

### NOTE:

To remove a black key, the white key to either side of it should be removed first.

# 7 SERVICE DIAGNOSTIC FUNCTION

The service diagnostic function makes it possible to determine whether the various test modes pass or fail. The test modes are completely independent of one another. Select a test mode as necessary, and run the test.

### To set to the service diagnostic mode:

1. Press and hold the C#3, D#3, C#4 keys, and then turn on the power switch.

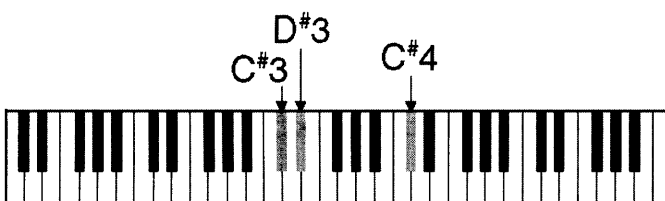


Figure-23

2. After the service diagnostic screen is displayed on the LCD, release the three keys.

3. Use the corresponding buttons below the "page select" display to select the respective test.

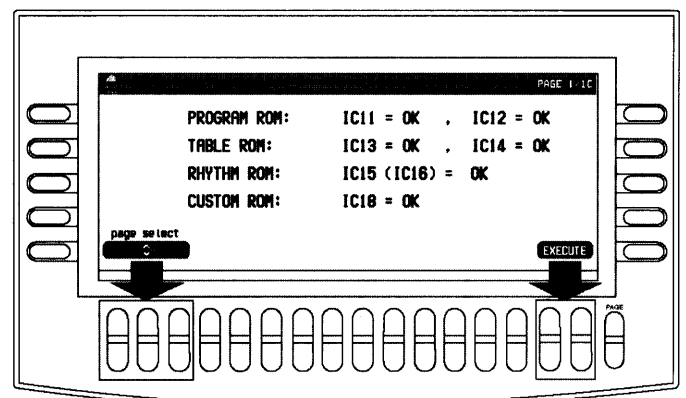


Figure-24

## 7.1. ROM device test

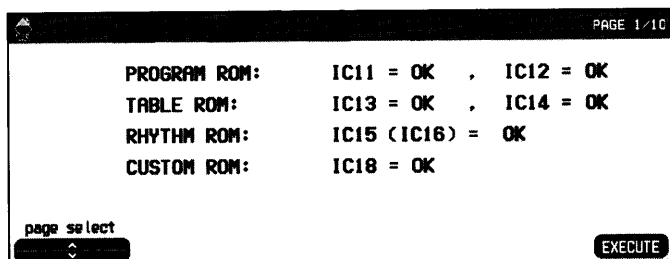


Figure-25

- Press the EXECUTE button to begin the test.
- The test result (OK or NG) is displayed within twenty seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.2. RAM device test

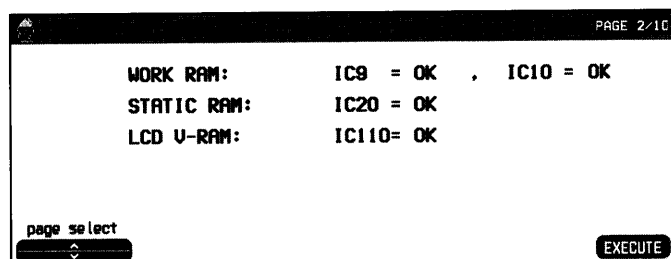


Figure-26

- Press the EXECUTE button to begin the test.
- The test result (OK or NG) is displayed within few seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.3. Other device test

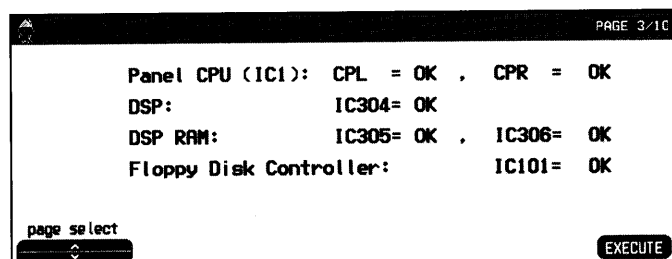


Figure-27

- Press the EXECUTE button to begin the test.
- The test result (OK or NG) is displayed within few seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.4. Floppy Disk SAVE/LOAD test

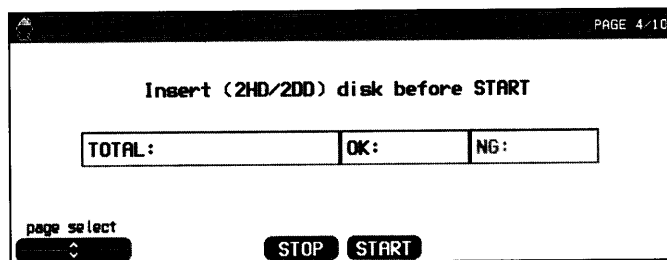


Figure-28

- Insert a formatted floppy disk into the Disk Drive. Press the START button to begin the test.
- The test is carried out repeatedly. Data is saved and loaded, and then the two data sets are compared. The number of times that the test results in OK or NG are counted and displayed on the LCD. To interrupt the test, press the STOP button.
- Even when the Floppy Disk Drive is functioning properly, the test can result in NG. If this happens frequently, clean the magnetic heads of the Floppy Disk Drive with a cleaning disk. Then, change the disk used in testing with another disk and reperform the test. If the trouble is not solved, it is likely that the Disk Drive unit or some other part of the hardware is broken.

## 7.5. Panel SW & LED test

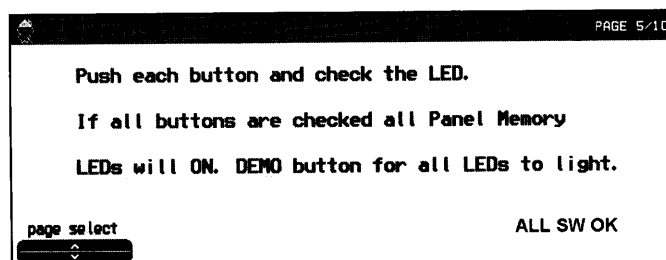


Figure-29

- Press all the buttons on the Control Panel and confirm that the corresponding LED lights.
- If an LED fails to light, the cause may be a defective switch or a break in the surrounding circuit, etc.
- After all the buttons have been pressed, all the PANEL MEMORY LEDs light. If all switches are OK, "ALL SW OK" is shown on the LCD. (If a switch is defective, nothing is shown.)
- To light all the LEDs, press and hold the DEMO button. If an LED fails to light, the LED may be defective or there may be a break in the surrounding circuit.

## 7.6. LCD module test (LCD adjustment and confirmation)

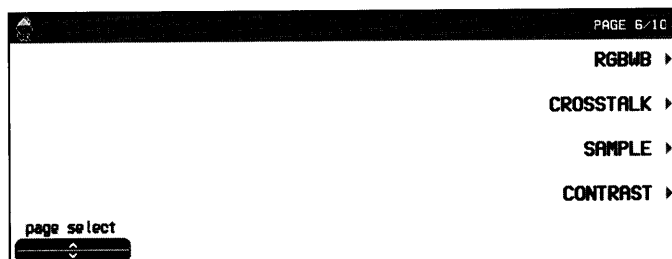


Figure-30

- Press the RGBWB, CROSSTALK, SAMPLE or CONTRAST button to begin the respective test.

|            |                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| RGBWB:     | All the dots light red, green, blue, white, and finally black. The display can be held by pressing the DISPLAY HOLD button.              |
| CROSSTALK: | An H pattern is shown. LCD crosstalk can be evaluated. To exit this test, press the EXIT button.                                         |
| SAMPLE:    | Several display patterns shown during normal use are shown. The display can be held by pressing the DISPLAY HOLD button.                 |
| CONTRAST:  | The test pattern is shown. Adjust the contrast by the CONTRAST control on the left of the LCD. To exit this test, press the EXIT button. |

- If the correct display is not shown during these tests, the LCD or LCD drive circuit may be defective.

## 7.7. In & Out interface test

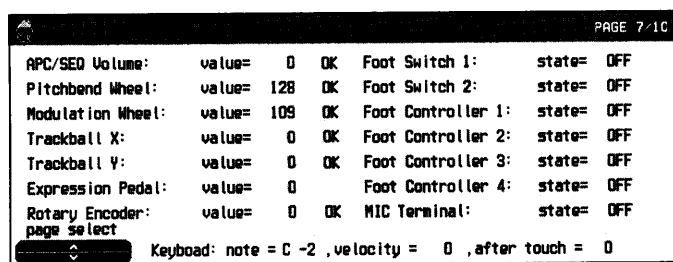


Figure-31

- The operation status of each input action part can be confirmed. If the part is operating properly, "OK" is shown, excluding the Expression Pedal.
- When a keyboard key is pressed, the corresponding pitch and velocity aftertouch is displayed (only as long as the key is depressed).
- The respective statuses for other input action parts are displayed. (Analog parts are shown as numerical values from 0 to 255, and switches are shown as ON or OFF.)
- If the display fails to change when the part is operated, or if the change is abnormal, it may indicate a defective part.

## 7.8. MIDI IN/OUT test

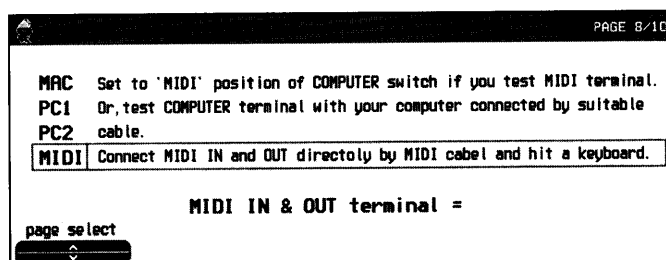


Figure-32

- First, set the COMPUTER terminal switch to MIDI.
- Use a MIDI cable to directly connect the MIDI IN and MIDI OUT terminals.
- When a keyboard key is pressed, the transmitted and received data are compared and the MIDI terminal operation is indicated as being OK or NG.
- If NG is shown, check both the IN and OUT terminals, as well as the circuit.

## 7.9. WAVE ROM test

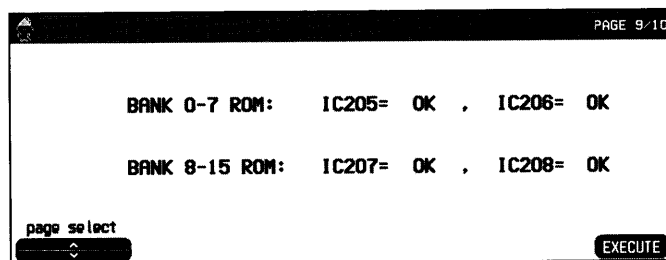


Figure-33

- Press the EXECUTE button to start the test.
- The test result (OK or NG) is displayed within thirty seconds. If the test result is NG, not only the respective IC, but a break or short circuit in the ADDRESS/DATA BUS as well as in any of the strobe signal lines may be the cause of the failure.

## 7.10. SOUND SYSTEM test

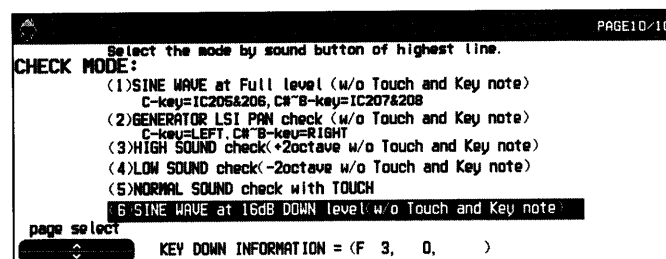


Figure-34

- Use the button in the SOUND GROUP to select an item from 1 to 6 as shown in Figure-35. Press a keyboard key.

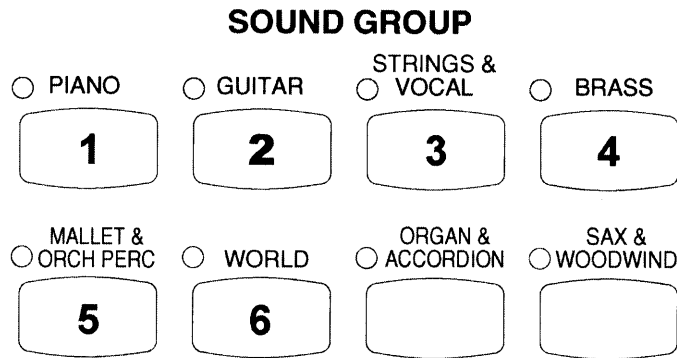


Figure-35

1. Generate a full amplitude sine wave in the pitch of each key. (No touch, fixed stereo center).

If no sound is generated or if the sound is distorted, the sound generator ROM corresponding to the key position is defective.

2. For confirming the output pathway from the sound

generator. (Fixed scale, no touch)

The Lch and Rch sound outputs are confirmed separately

3. Generate a full amplitude sine wave in the pitch of each key +2 octaves. (No touch, fixed stereo center)

By generating a sound frequency outside the normal keyboard zone, you can confirm whether or not there is an abnormality in the sound output frequency zone.

4. Generates a full amplitude sine wave in the pitch of each key -2 octaves. (No touch, fixed stereo center)

By generating a sound frequency outside the normal keyboard zone, you can confirm whether or not there is an abnormality in the sound output frequency zone.

5. Generate a sine wave in the pitch of each key with touch.

You can confirm if the volume changes depending on the touch.

6. Generate a full amplitude sine wave in the pitch of each key at a -16 dB volume. (No touch, fixed stereo center)

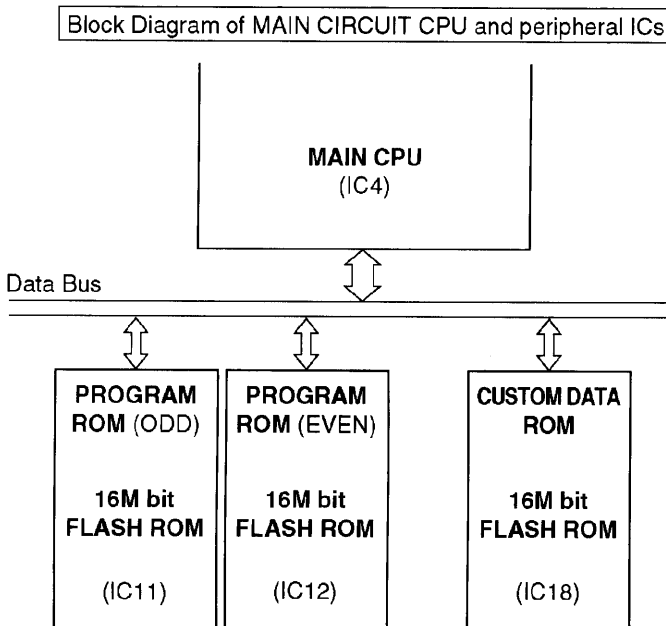
You can confirm the same sound output as in 1, at a low volume.

## 8 PRECAUTIONS BEFORE SERVICING THE MAIN CIRCUIT

This model employs a FLASH ROM (EEPROM) for the PROGRAM ROMs and the CUSTOM DATA ROM. If changing any of these ICs, service the MAIN CIRCUIT as explained here following.

### 8.1. About the FLASH ROM

The FLASH ROM can be electrically erased and rewritten. This model is designed so that the repair technician can easily write and change programs and data in the FLASH ROM, by using a floppy disk.



\* FLASH ROM contents

IC11: MAIN CPU program (ODD)

IC12: MAIN CPU program (EVEN)

IC18: RHYTHM & ACCOMP data for the RHYTHM GROUP/CUSTOM function

Figure-36

### 8.2. Notes on replacing FLASH ROMs

The replacement parts include a FLASH ROM with a available memory and the PROGRAM DISKs which contains the program to be written into the PROGRAM ROMs. After replacing the PROGRAM ROM, always write the program into it from the PROGRAM DISKs included in the replacement parts. For details on programming, see "After replacing the PROGRAM ROM (IC11/IC12)".

The CUSTOM DATA ROM stores RHYTHM & ACCOMP data for the RHYTHM GROUP/CUSTOM function. The initial RHYTHM & ACCOMP data is factory-set in the CUSTOM DATA ROM at the time of shipping. The CUSTOM DATA ROM can also store COMPOSER data that the user creates. However, user-data is lost when the CUSTOM DATA ROM is replaced. After replacing the CUSTOM DATA ROM, default the data in it with the INITIAL DATA DISK attached to this product. For details on defaulting, see "After replacing the CUSTOM DATA ROM (IC18)".

### 8.3. About the replacement parts

The same FLASH ROM with a available memory can be used for the PROGRAM ROMs (IC11/IC12). Moreover, the included PROGRAM DISKs contains all programs. Therefore, the replacement parts can be used for IC11 and IC12.

### 8.4. How to write program/data into FLASH ROMs

#### 8.4.1. After replacing the PROGRAM ROM (IC11/IC12)

1. Set the PROGRAM DISK 1 included in the replacement parts into the Floppy Disk Drive.
2. Hold down the **PANEL MEMORY** buttons 1, 2, 3 and 4 (as shown in Figure-37), and turn on the power switch.

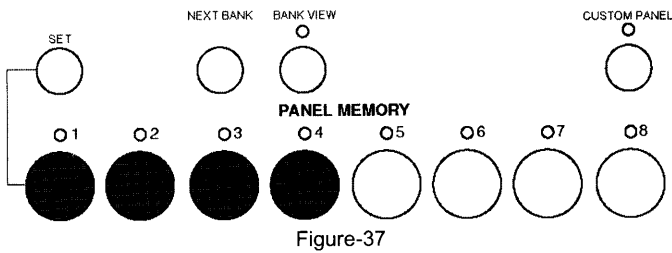


Figure-37

3. Check "Flash Memory Update" is displayed on the LCD, and release the **PANEL MEMORY** buttons.

The program will be written into the FLASH ROM automatically. Replace the floppy disk when instructed.

4. When the operation is complete, "Completed!!" will be displayed on the LCD.
5. Turn the power switch off and then back on again. Check the instrument is functioning properly.

#### 8.4.2. After replacing the CUSTOM DATA ROM (IC18)

1. With the normal display displayed on the LCD, set the INITIAL DATA DISK included with the model into the Floppy Disk Drive.

The normal display automatically changes to the DISK MENU display.

2. Select "LOAD" to change to the file select display.
3. Move the highlighting cursor to "CTMINI" in "No. 01" and select "LOAD".  
"PLEASE WAIT..." will appear on the LCD and the model will start defaulting data in the CUSTOM DATA ROM.
4. When the operation is complete, "Completed!!" will be displayed on the LCD.
5. Turn the power switch off and then back on again. Check the instrument is functioning properly.

## 9 MEASUREMENTS AND ADJUSTMENTS

Table-3

| ADJUSTMENT                                                                                                                                                                    | MEASURING CONDITIONS | EQUIPMENT    | ADJUSTMENT P.C.B. | ADJ. POINT | CONNECT METER TO | METER READING |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|-------------------|------------|------------------|---------------|
| AFTER TOUCH SENSOR Sensitivity                                                                                                                                                | any position         | Oscilloscope | MKB3 P.C.B.       | VR1        | CN11-3pin        | 6.0V          |
| 1. Press one of the any keys hardly and check the CN11-3 pin voltage.<br>The voltage will increase and become steady.<br>2. Adjust the voltage to 6.0V with VR1 at that time. |                      |              |                   |            |                  |               |

## 10 PRECAUTIONS BEFORE SERVICING

### 10.1. Precautions for measuring of the output waveforms

1. The waveform was measured with a "National Digital Storage Oscilloscope VP-5730A". Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.
2. Since the 1/10 test probe is used, the indicated voltage value on the bottom part of each waveform illustration is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).
3. To measure the waveforms, first set this unit to the service diagnostic mode (refer to "WAVE ROM test"). The WAVE ROM output will then be output as a sine wave to facilitate the servicing check.

| SYMBOL | SPECIFICATION                                           | TYPE                 |
|--------|---------------------------------------------------------|----------------------|
| (TF)   | Metalized Plastic Film Capacitors (TF Series)           | ECQV_type            |
| ○      | Temperature Compensating Ceramic Capacitors             | ECC_type             |
|        | High-Dielectric Constant Ceramic Capacitors             | ECK_type<br>ECR_type |
|        | Axial Lead Ceramic Capacitors                           | ECB_type             |
|        | Metalized Polyester Film Capacitors for Across the Line | ECQ_EW_type          |
|        | Aluminum Electrolytic Capacitors for Smoothing Circuit  | ECES_type            |
|        | Multilayer Ceramic Chip Capacitors                      | ECUV_type            |

### 10.2. Important safety notice

- Components identified by a  $\Delta$  mark have special characteristics important for safety.
- When replacing any of these components, use only manufacture's specified parts.

### 10.3. Symbolic Marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following Table-1 and Table-2.

#### 10.3.1. RESISTORS

- Resistors without symbolic mark are FIXED CARBON FILM RESISTORS (ERD-type).
- All resistors are 1/4 WATT,  $\pm 5\%$  TOLERANCE unless otherwise designated in schematic diagrams.

Table-1

| SYMBOL | SPECIFICATION                                                           |
|--------|-------------------------------------------------------------------------|
| (F)    | Fixed Carbon Film Resistors<br>"FLAME-PROOF" (ERD—F—type)               |
| (F)    | Fixed Wire Wound Resistors<br>"FLAME-PROOF" (ERF—type)                  |
| (F)    | Fixed Metal Oxide Film Resistors<br>"FLAME-PROOF" (ERG—type)            |
| (F)    | Fixed Metal Film Resistors<br>"FLAME-PROOF" (ERX—type)                  |
| (G)    | Fixed Metal Film Resistors (Precision and High Stability)<br>(ERO—type) |
| (F)    | Fuse Type Fixed Metal Oxide Film Resistors<br>"FLAME-PROOF" (ERQ—type)  |
| (F)    | Fuse Type Fixed Carbon Film Resistors<br>"FLAME-PROOF" (ERD2FC—type)    |

#### 10.3.2. CAPACITORS

- Capacitors without symbolic mark are POLYESTER CAPACITORS. (ECQM-type, ECQG-type,  $\pm 10\%$  Tolerance)
- Polarized capacitors without symbolic mark are Aluminum Electrolytic Capacitors. (ECEA-type,  $\pm 20\%$  Tolerance)

Table-2

| SYMBOL | SPECIFICATION                                   | TYPE         |
|--------|-------------------------------------------------|--------------|
| (N)    | Non-Polarized Electrolytic Capacitors           | ECEA_KN_type |
| (Y)    | Non-Polarized Electrolytic (for Network system) | ECEA_Y_type  |
| (T)    | Tantalum Solid Electrolytic Capacitors          | ECS_type     |

# 11 Schematic Diagram

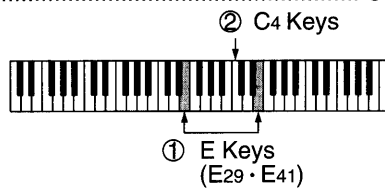
## ■ Printed Circuit Board and Schematic Diagram

### ■ Measuring Condition of MAIN P.C.B.

Check Point ③ - ⑤

Set to the self-diagnostic mode followings.

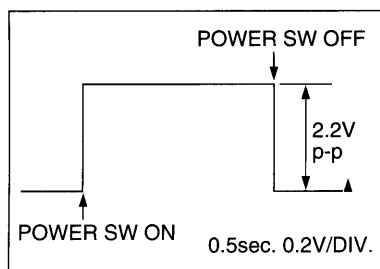
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND ..... BRASS
- Main Volume ..... MAX
- Keyboard ..... C4 (②)



Check Point ①

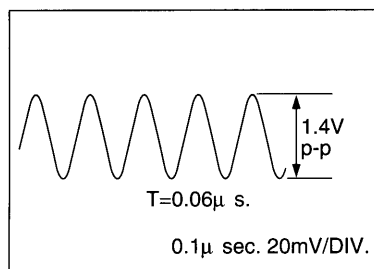
Set the initial setting mode (Refer to page I-6)

#### ① RESET

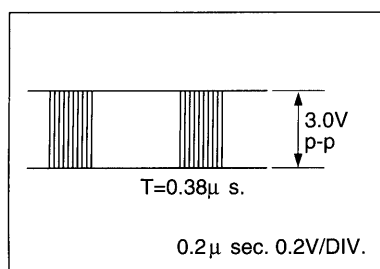


• Power SW ..... ON → OFF

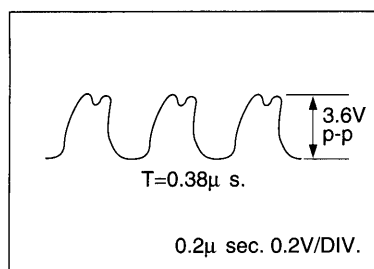
#### ② TG CLOCK



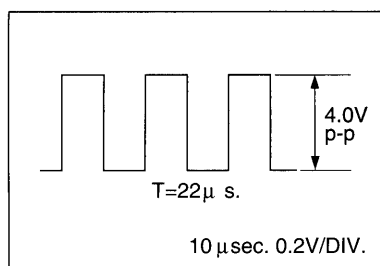
#### ③



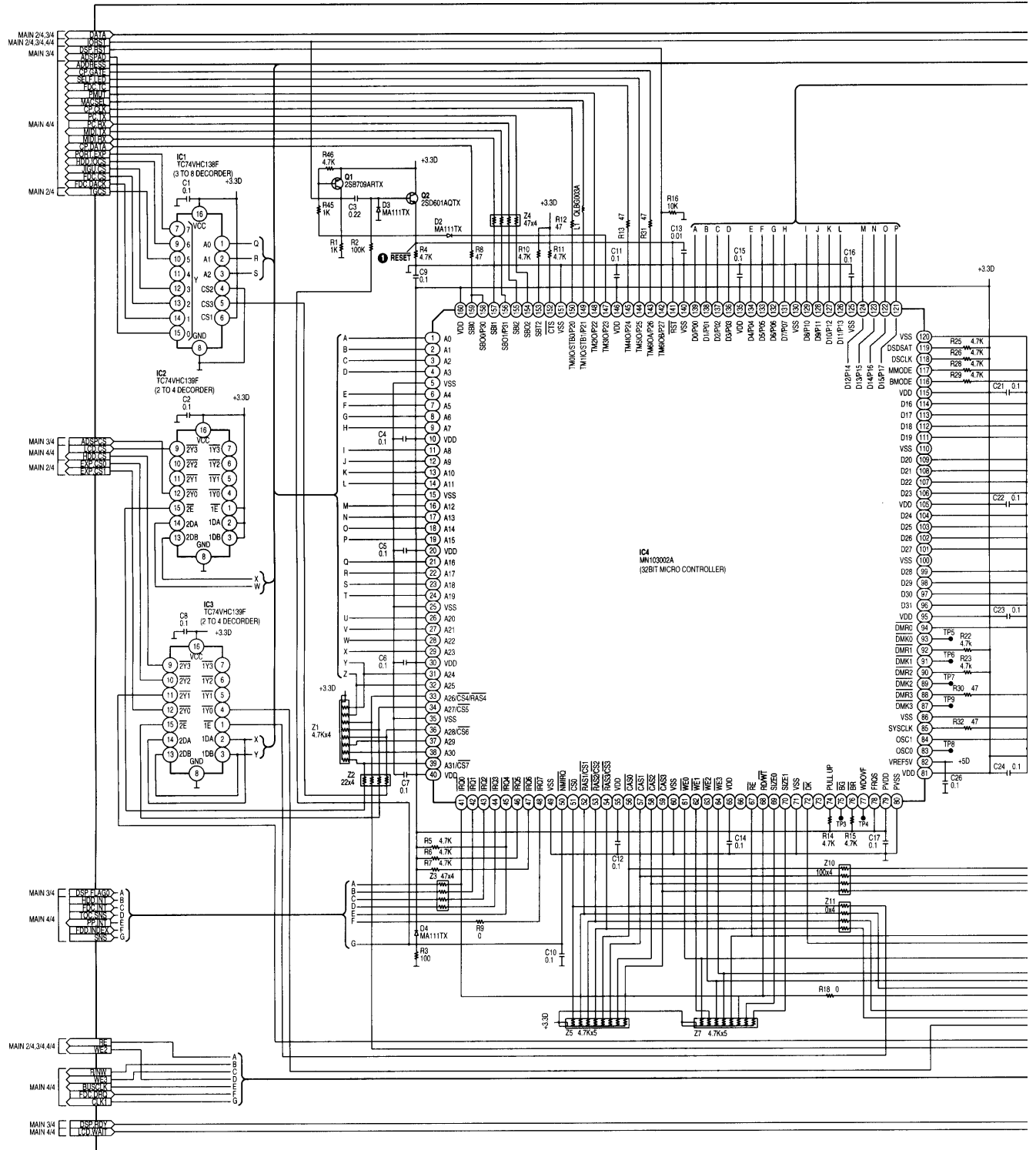
#### ④



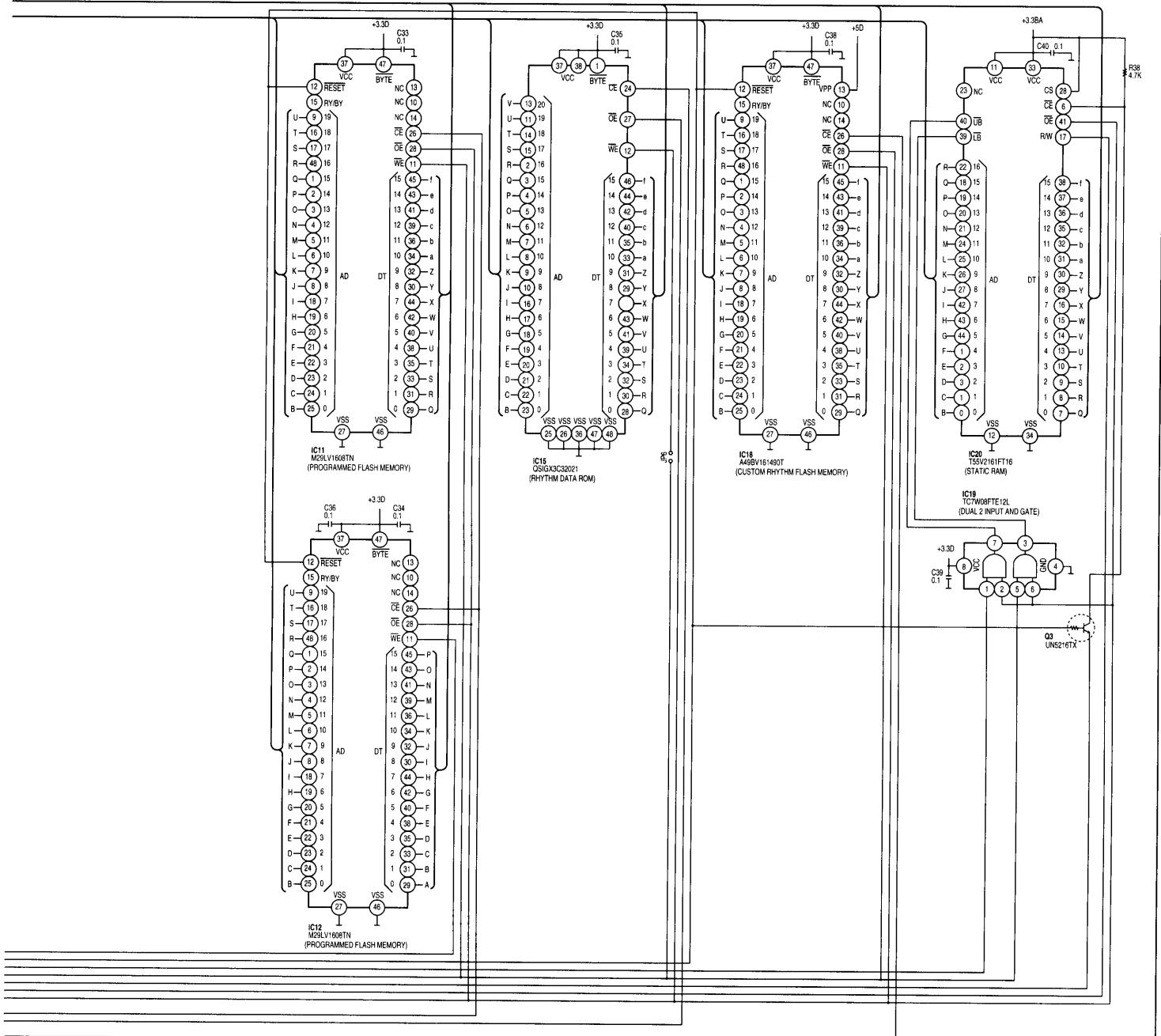
#### ⑤



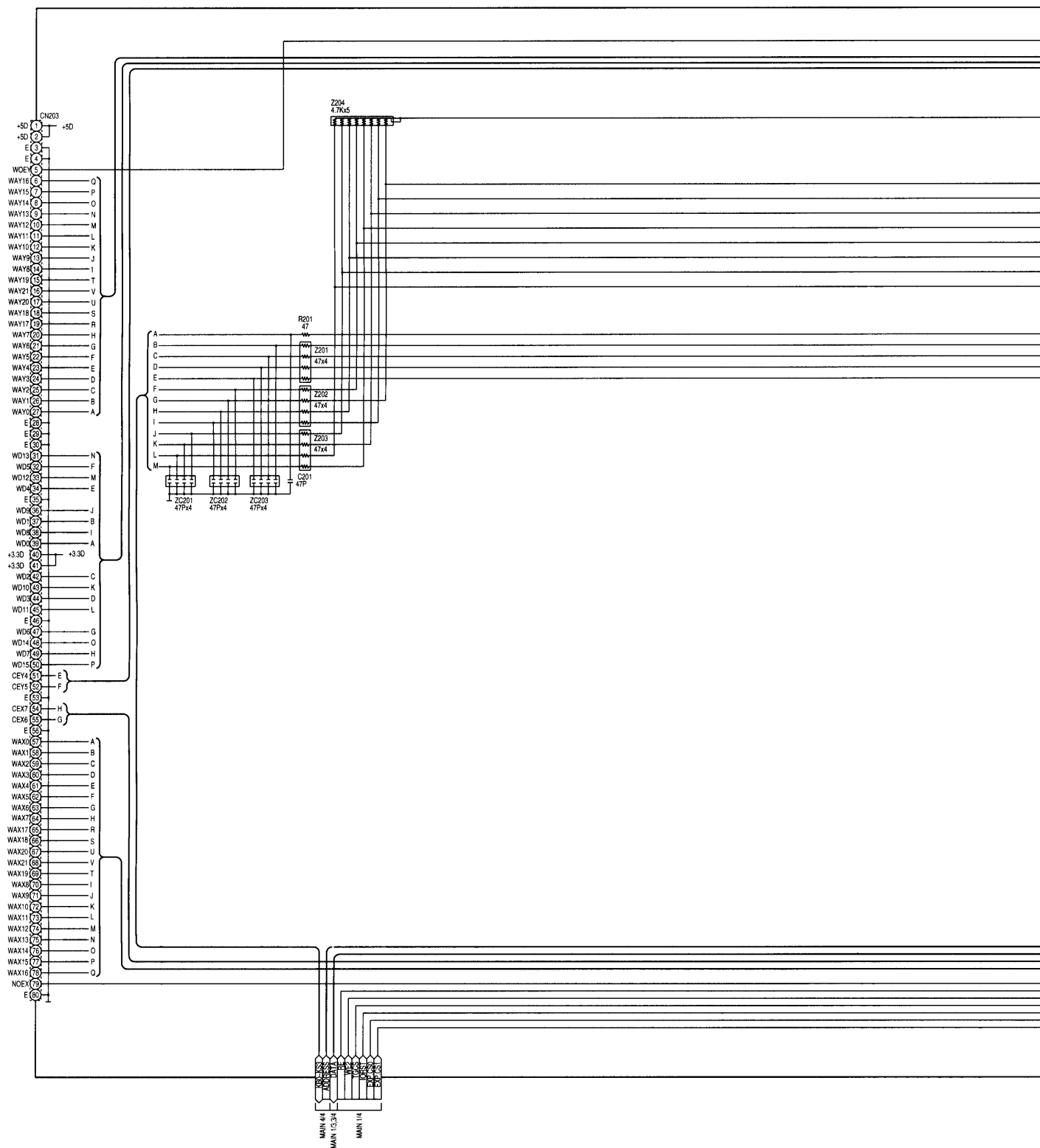
# A MAIN 1/4 CIRCUIT

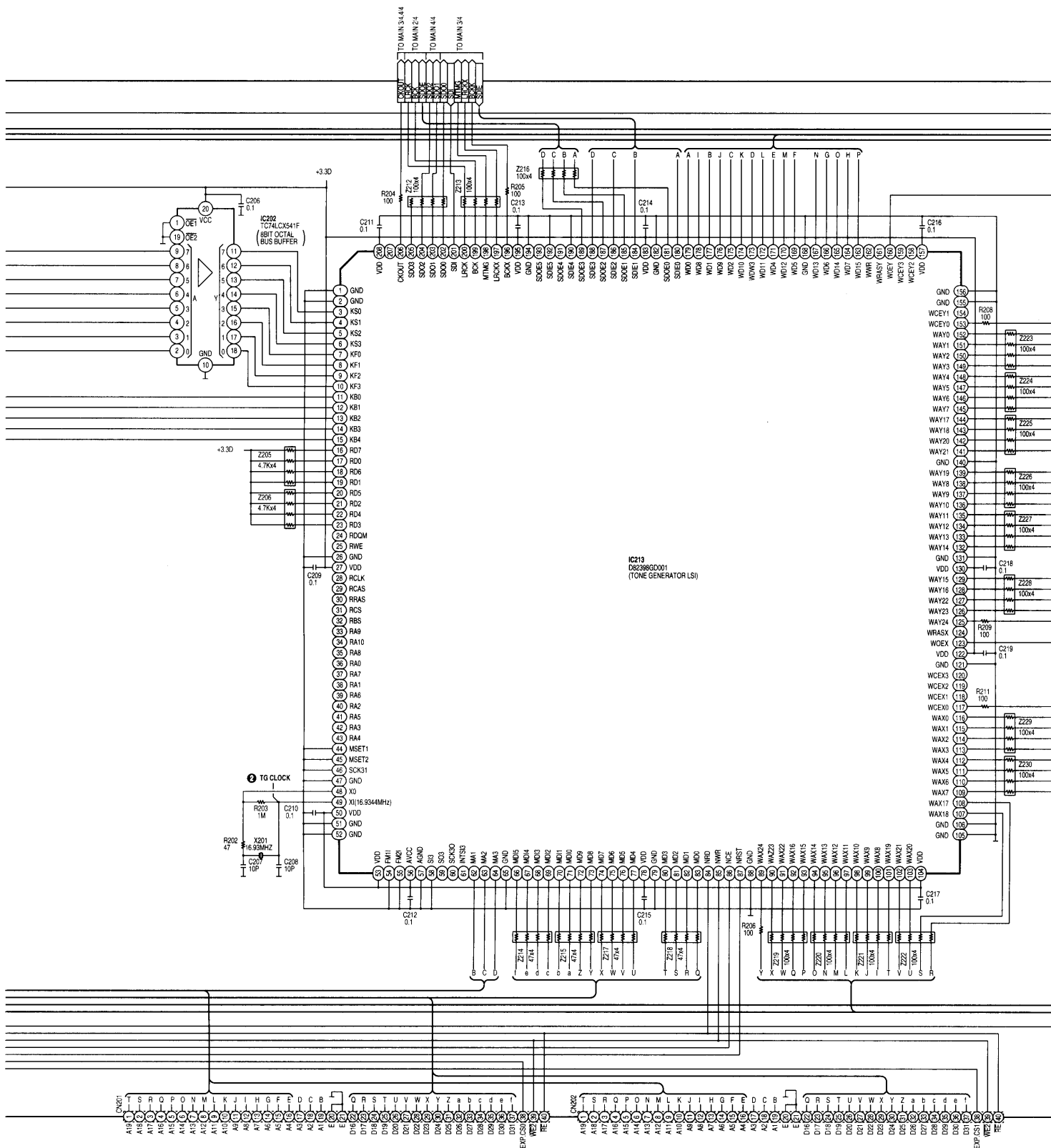


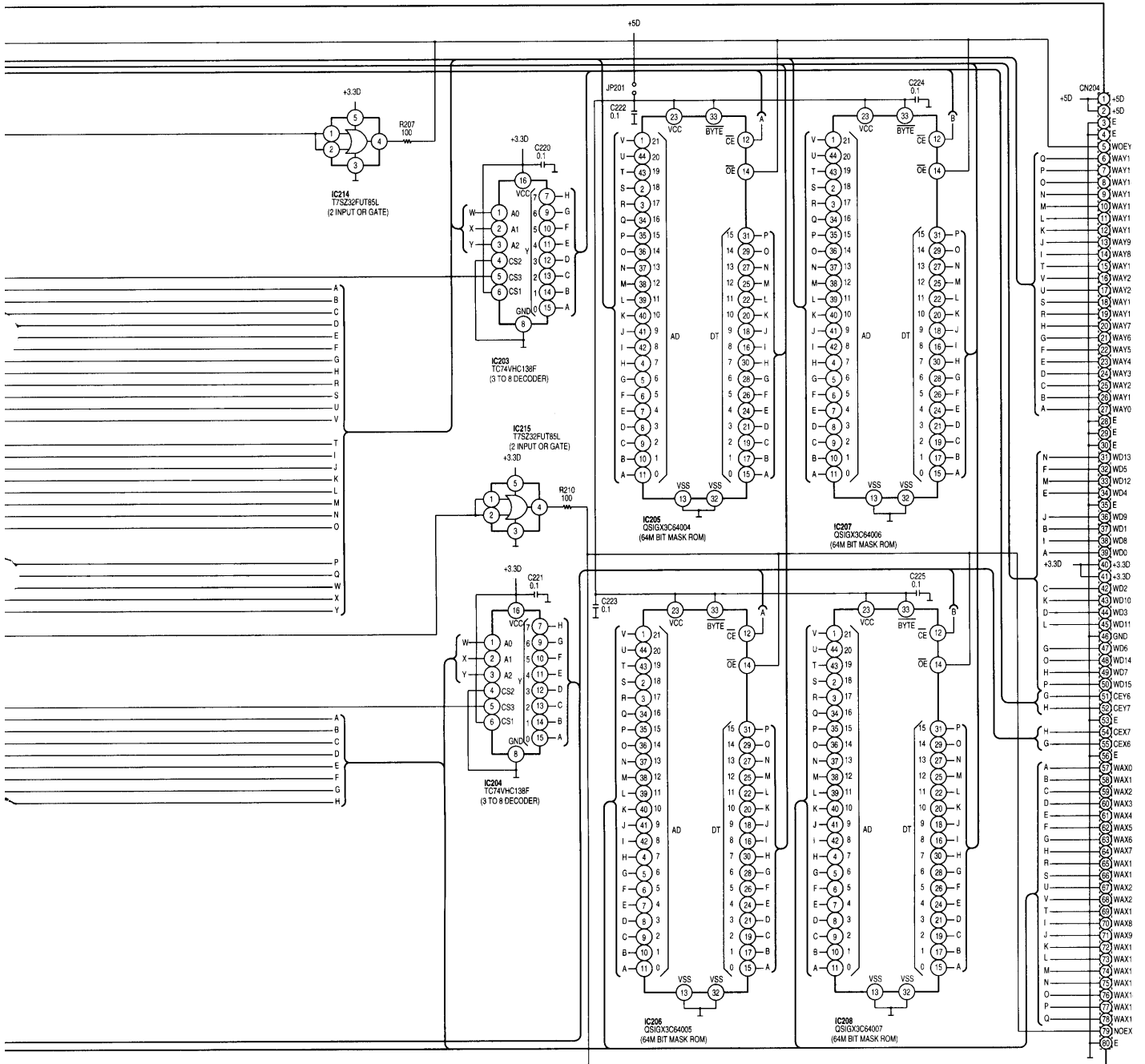




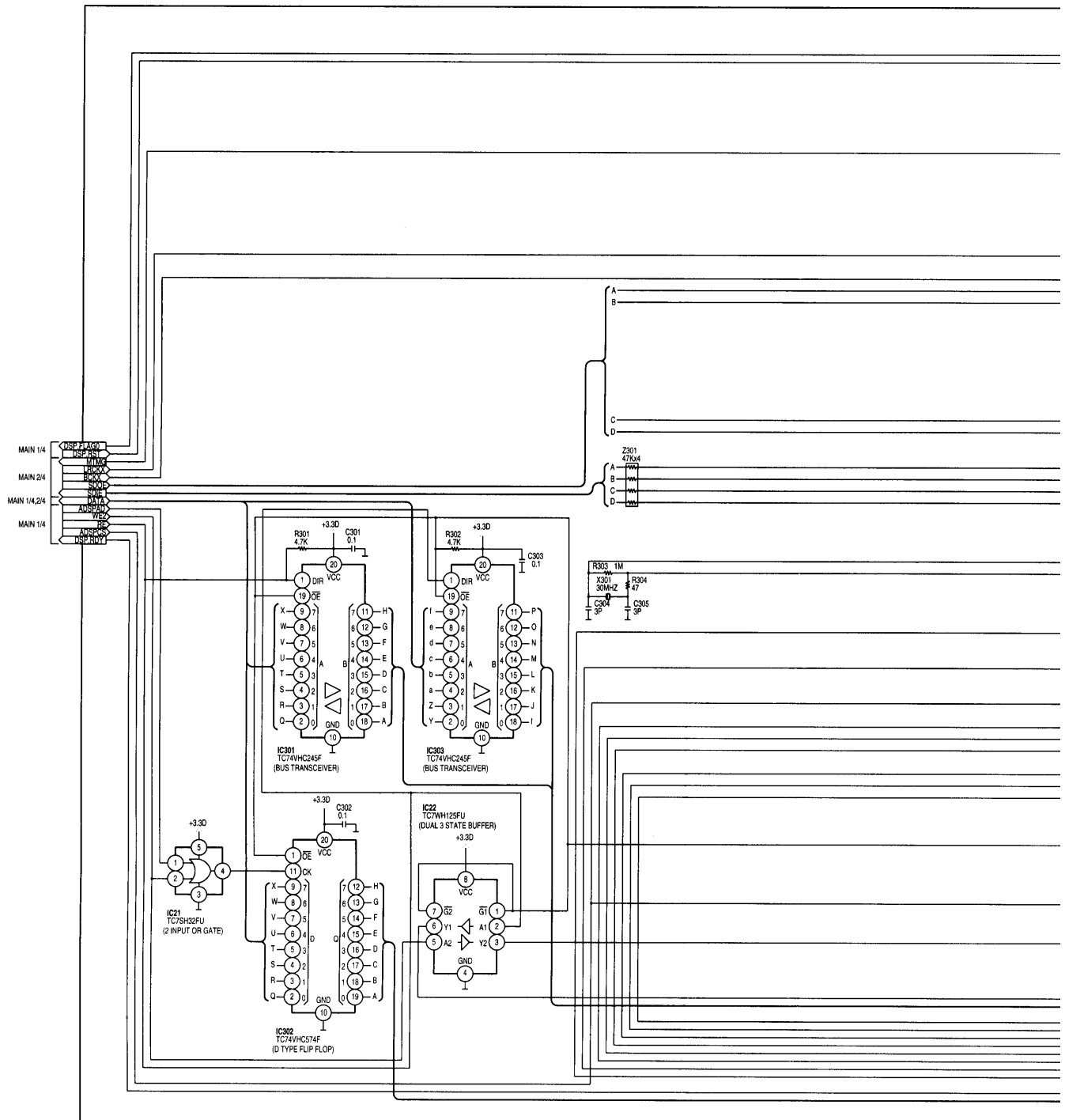
# A MAIN 2/4 CIRCUIT

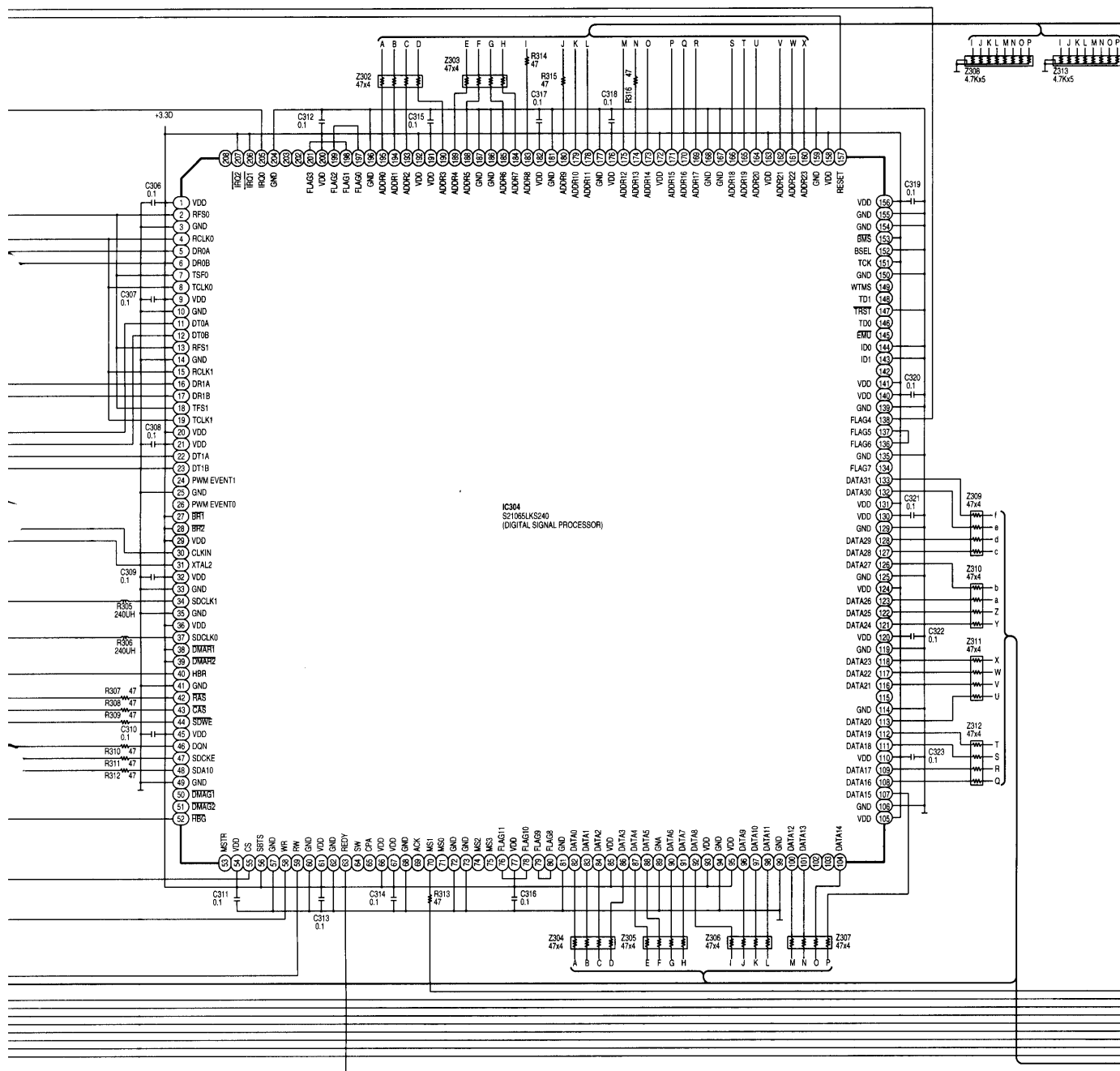


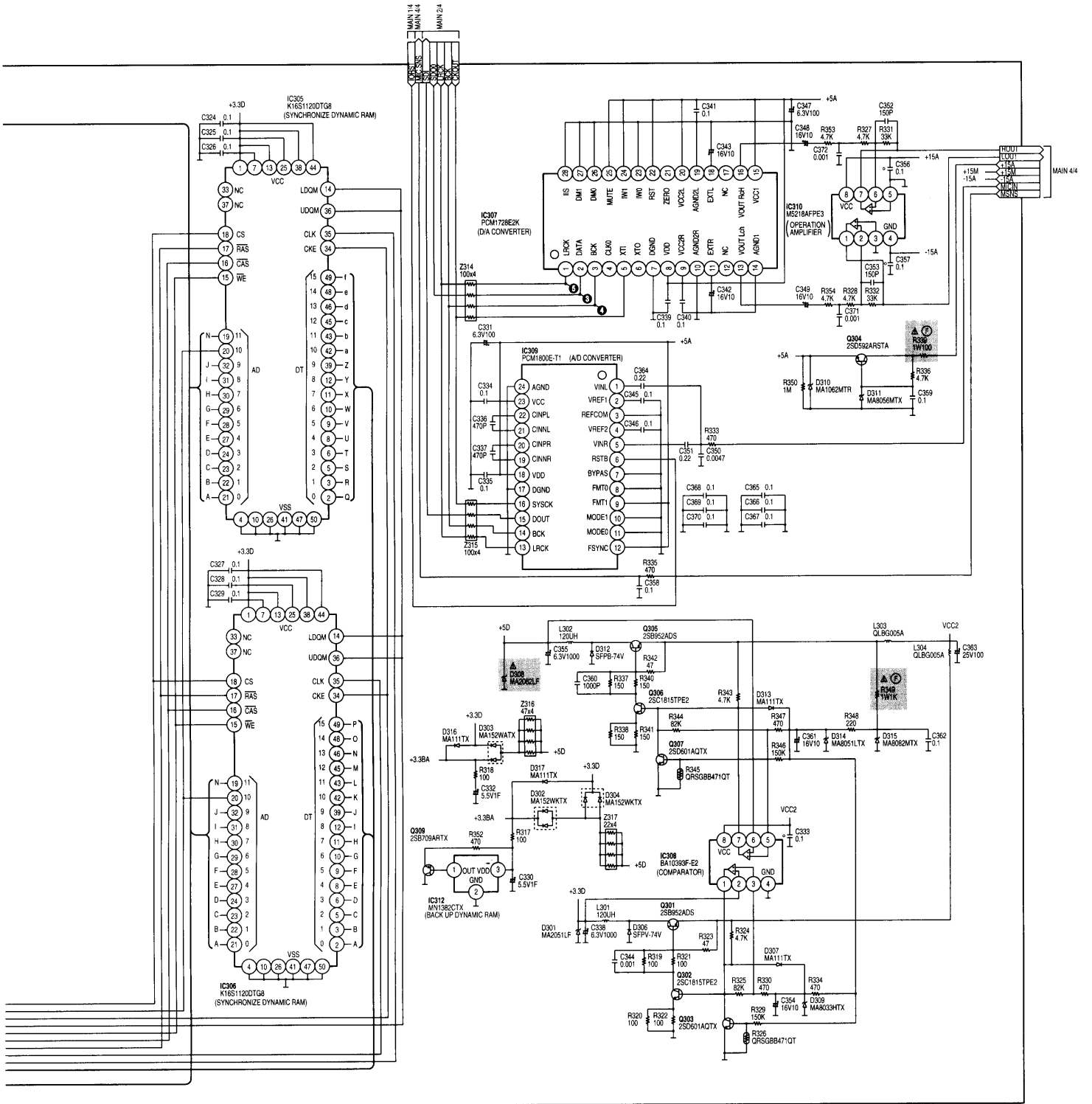




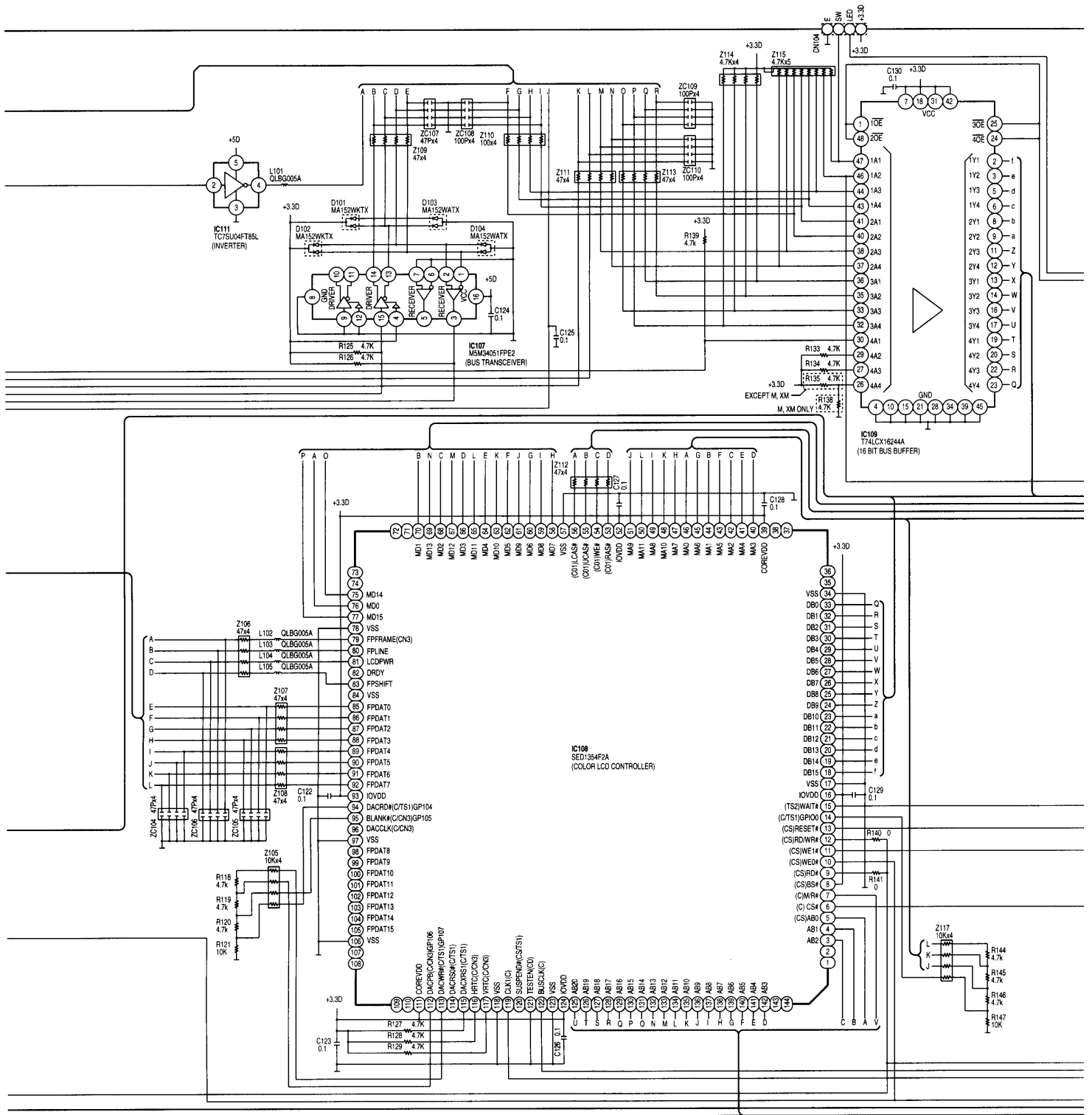
## A MAIN 3/4 CIRCUIT

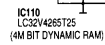










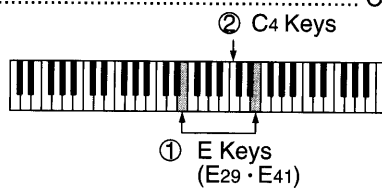


## ■ Measuring Condition of FAJ P.C.B.

### Check Point ③ - ⑧

Set to the self-diagnostic mode followings.

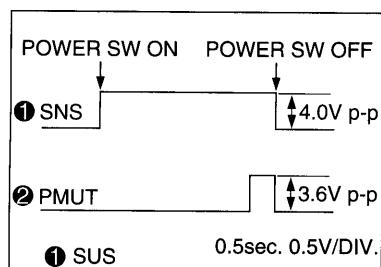
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND ..... BRASS
- Main Volume ..... MAX
- Keyboard ..... C<sub>4</sub> (②)



### Check Point ①, ②

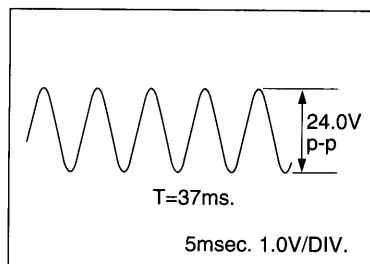
Set the initial setting mode (Refer to page I-6)

### ① SNS, ② PMUT

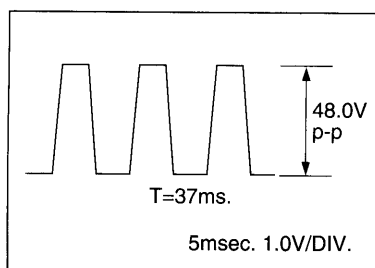


• Power SW ..... ON → OFF

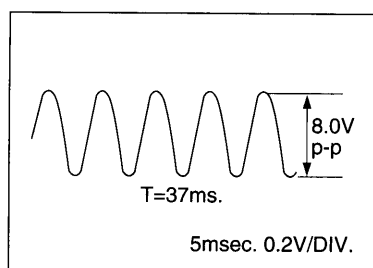
### ③ HPL, ④ HPR



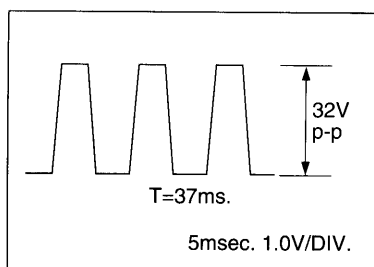
### ⑤ SPL, ⑥ SPR

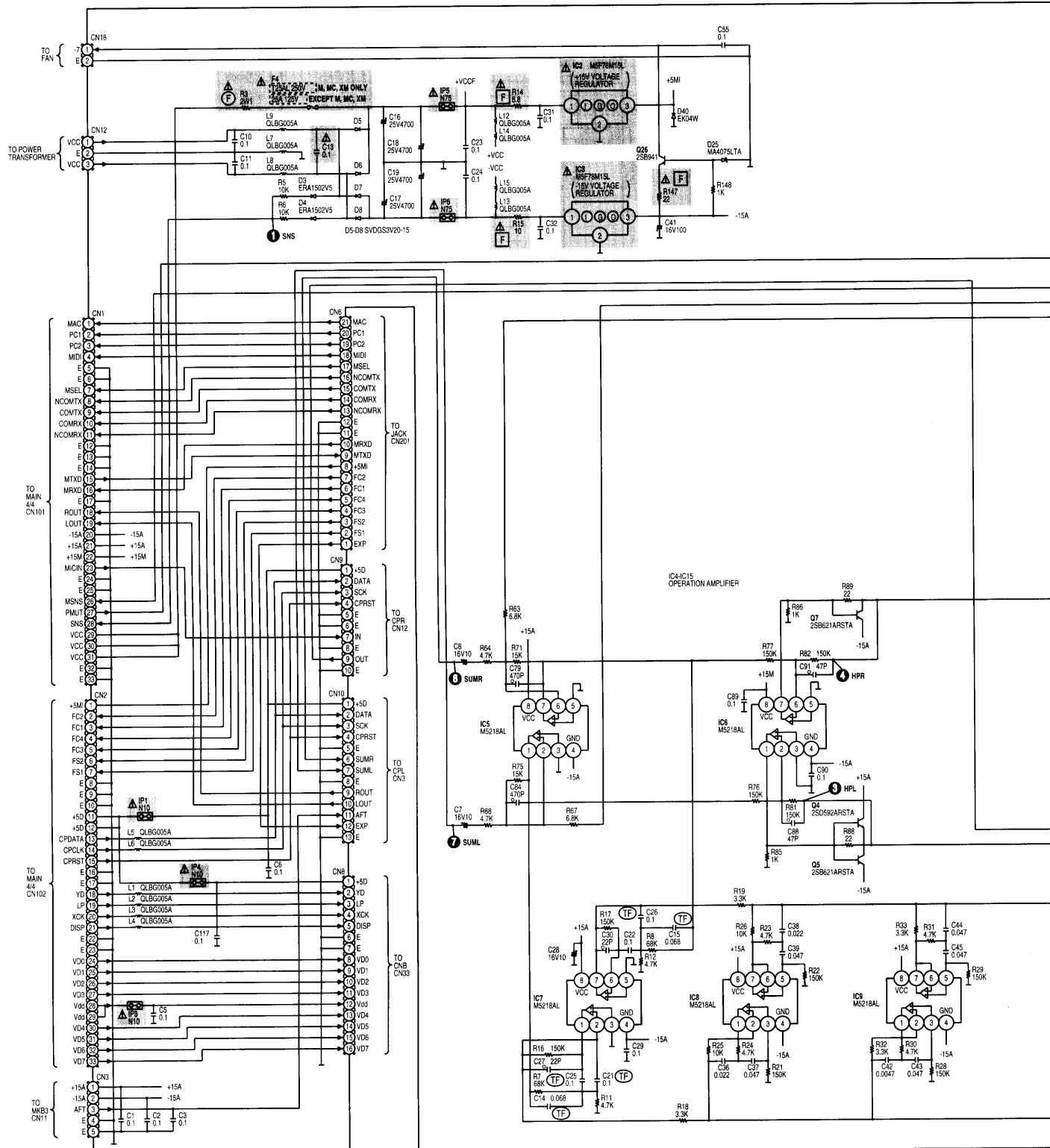


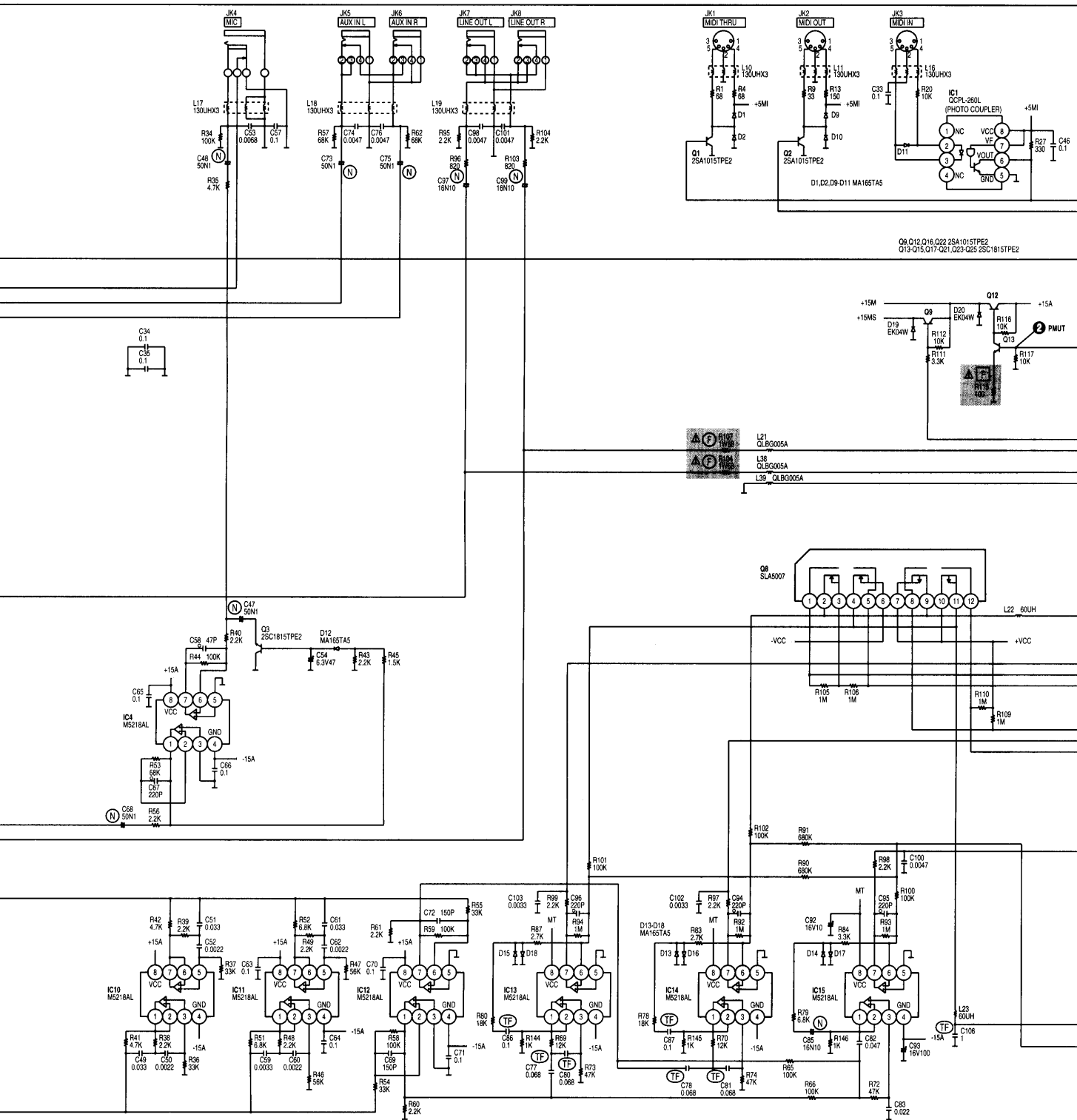
### ⑦ SUML, ⑧ SUMR



### ⑨ SPW

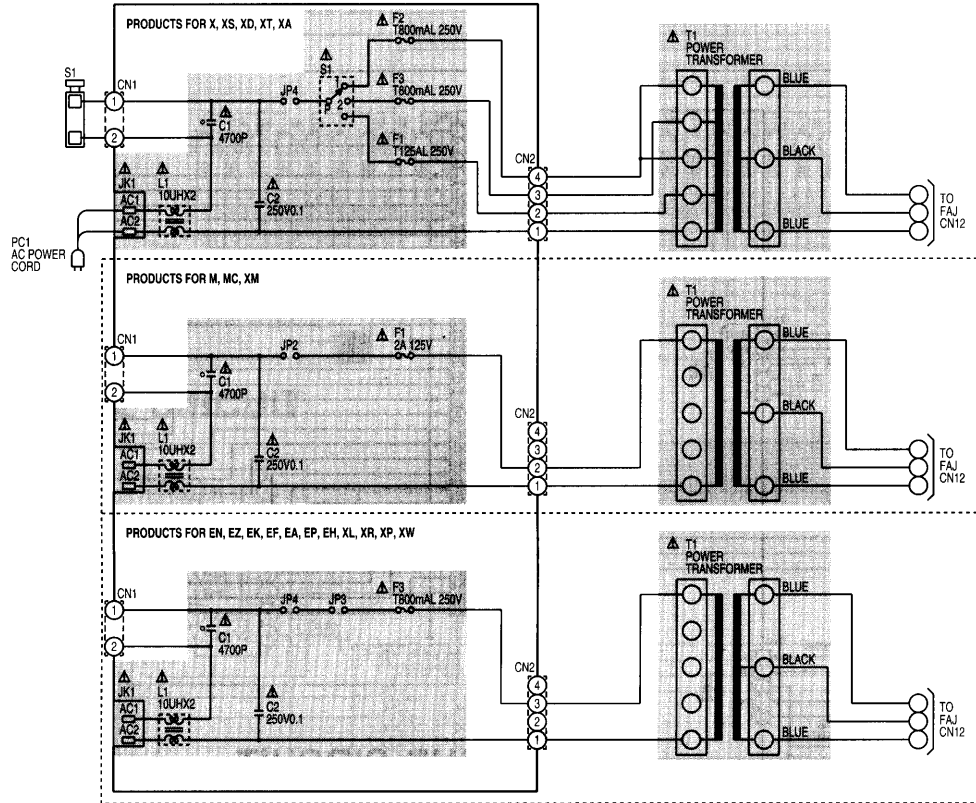


**B** FAJ CIRCUIT

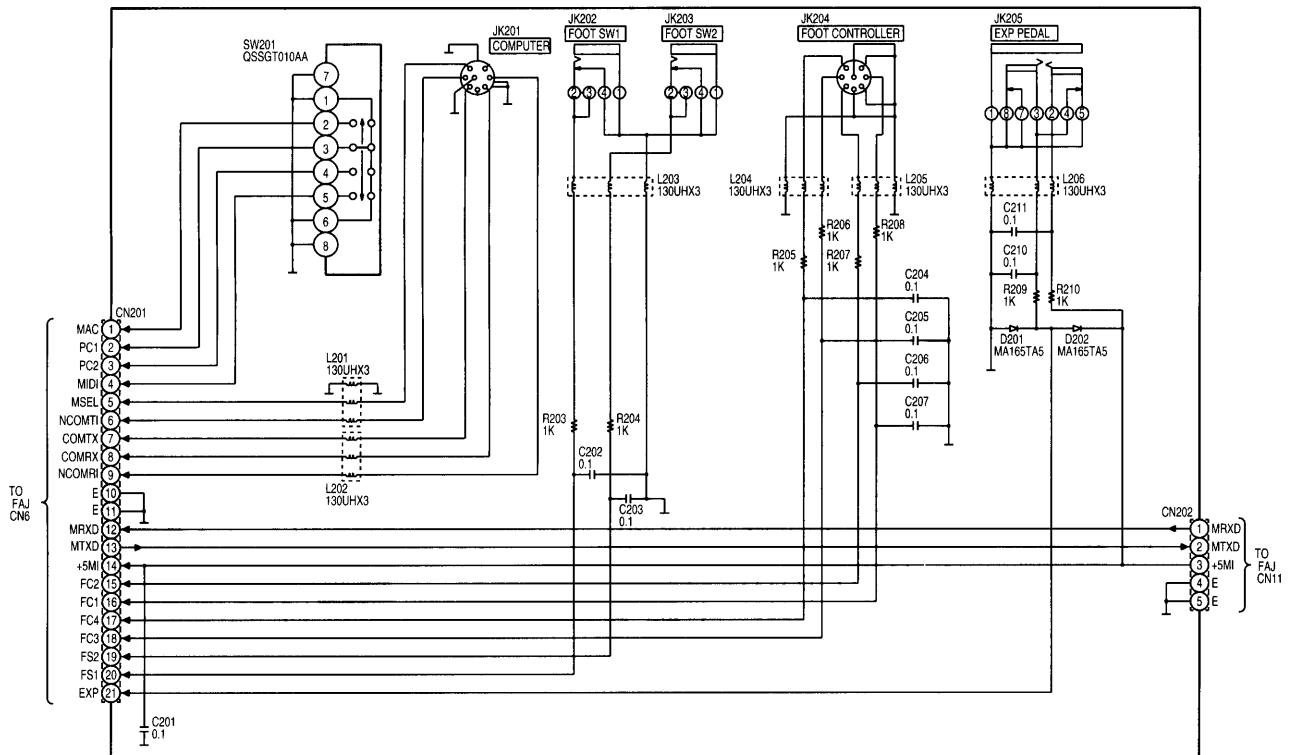




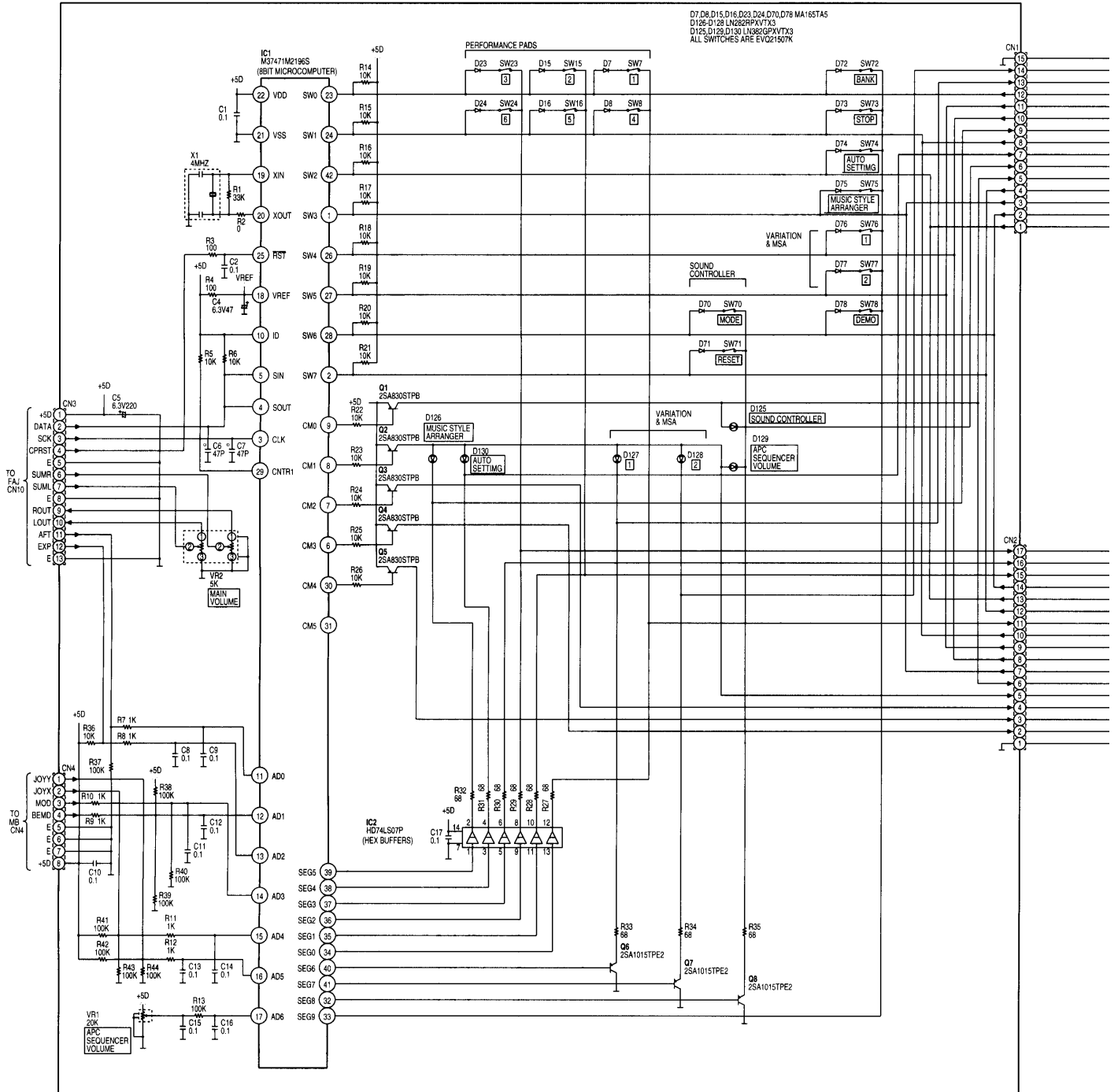
## DACP CIRCUIT



## J JACK CIRCUIT

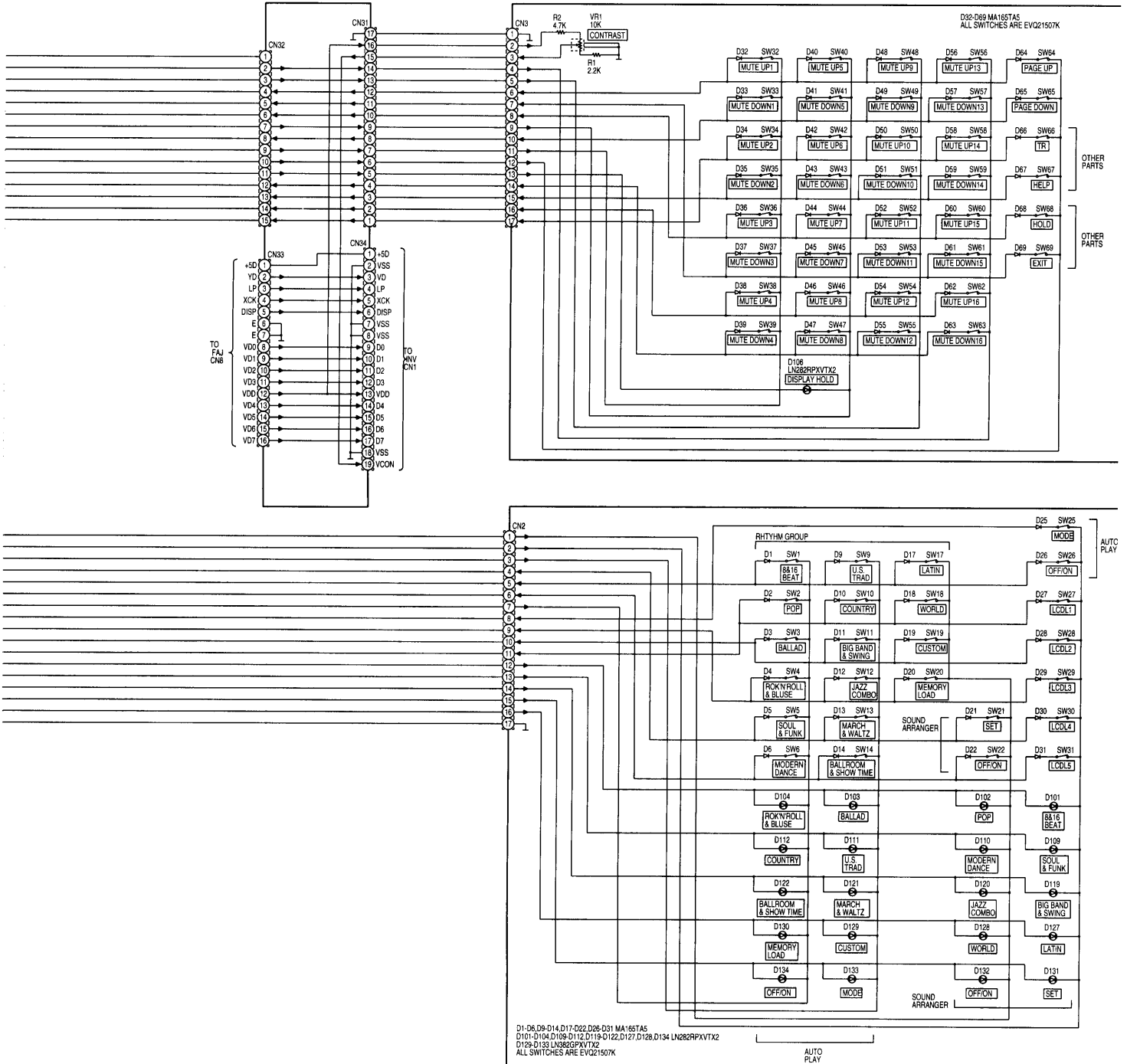


# E CPL CIRCUIT



## CNB CIRCUIT

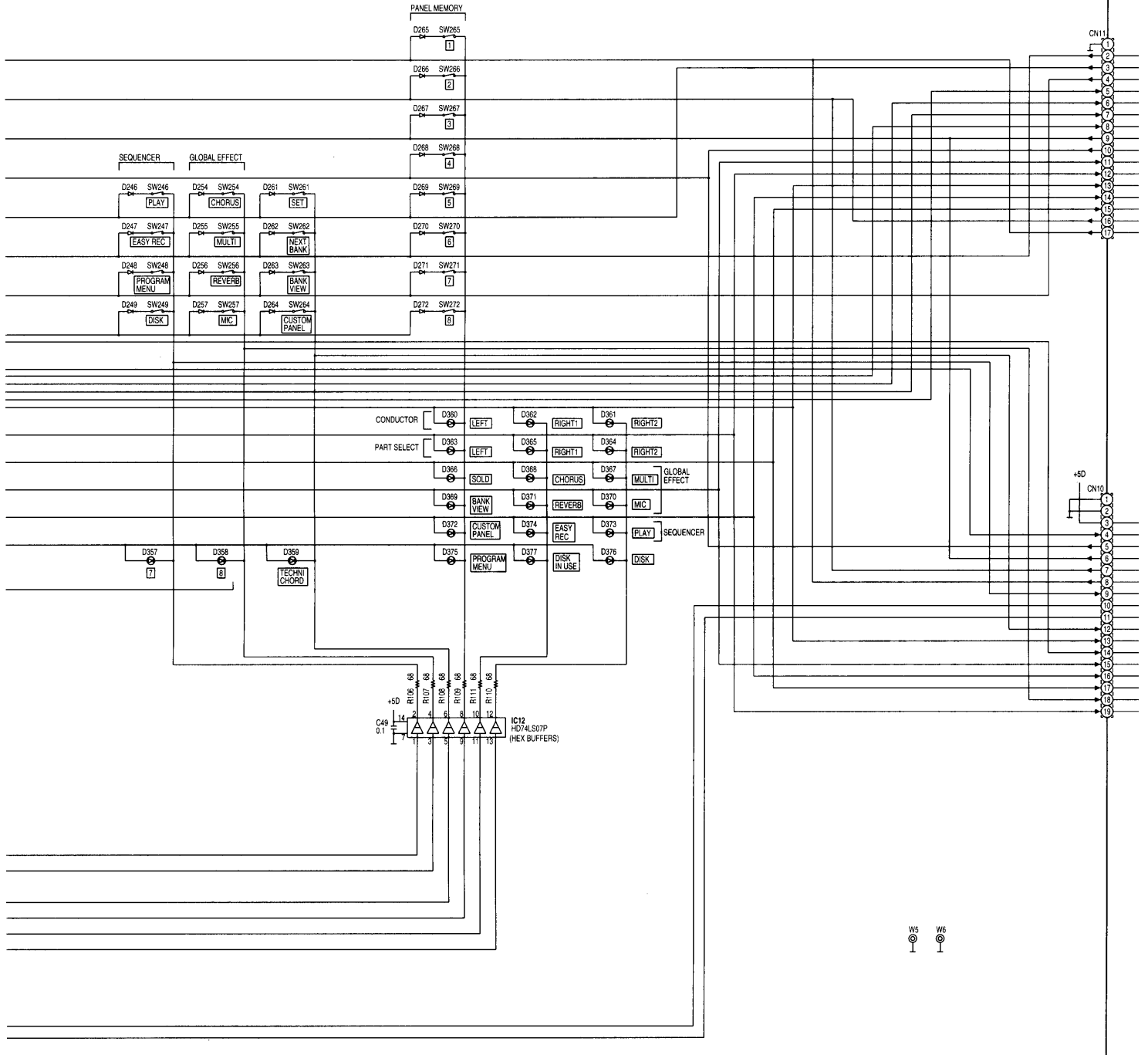
## LCDC CIRCUIT



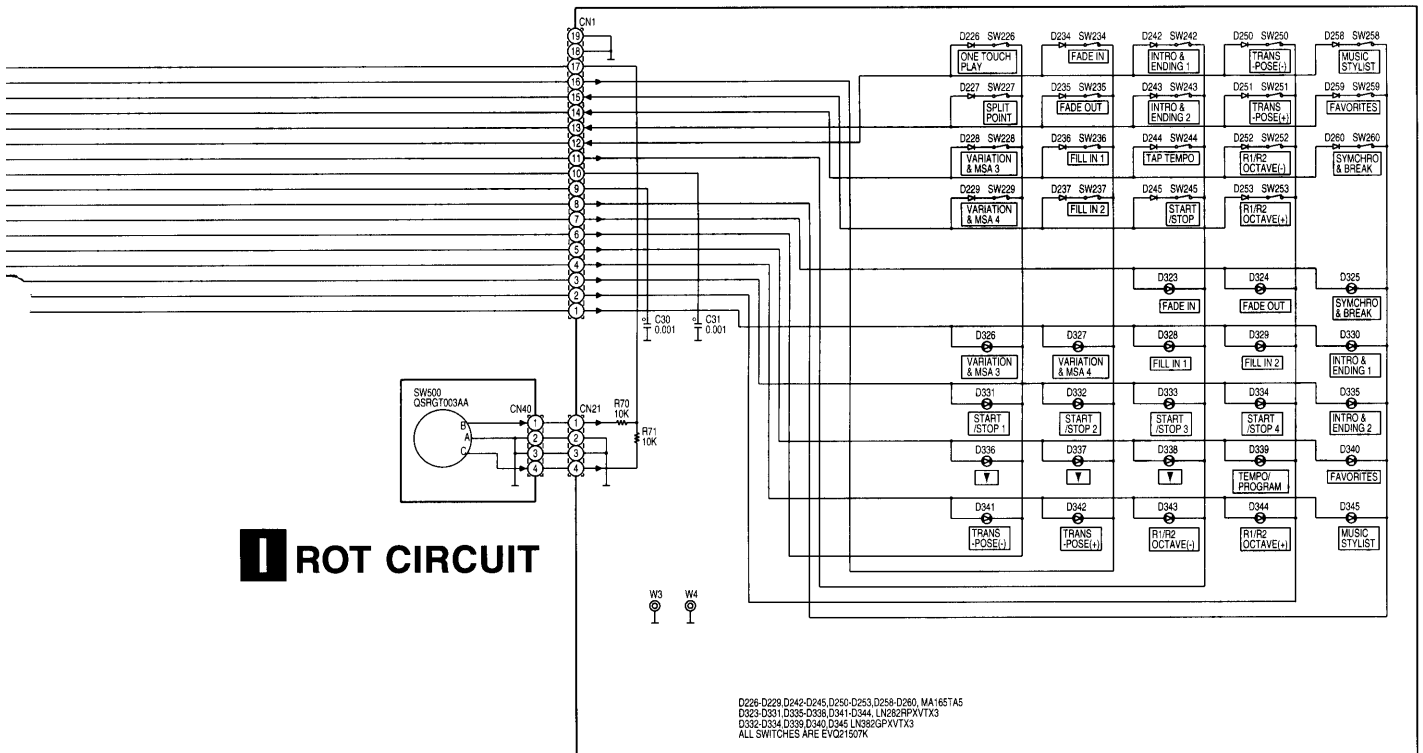
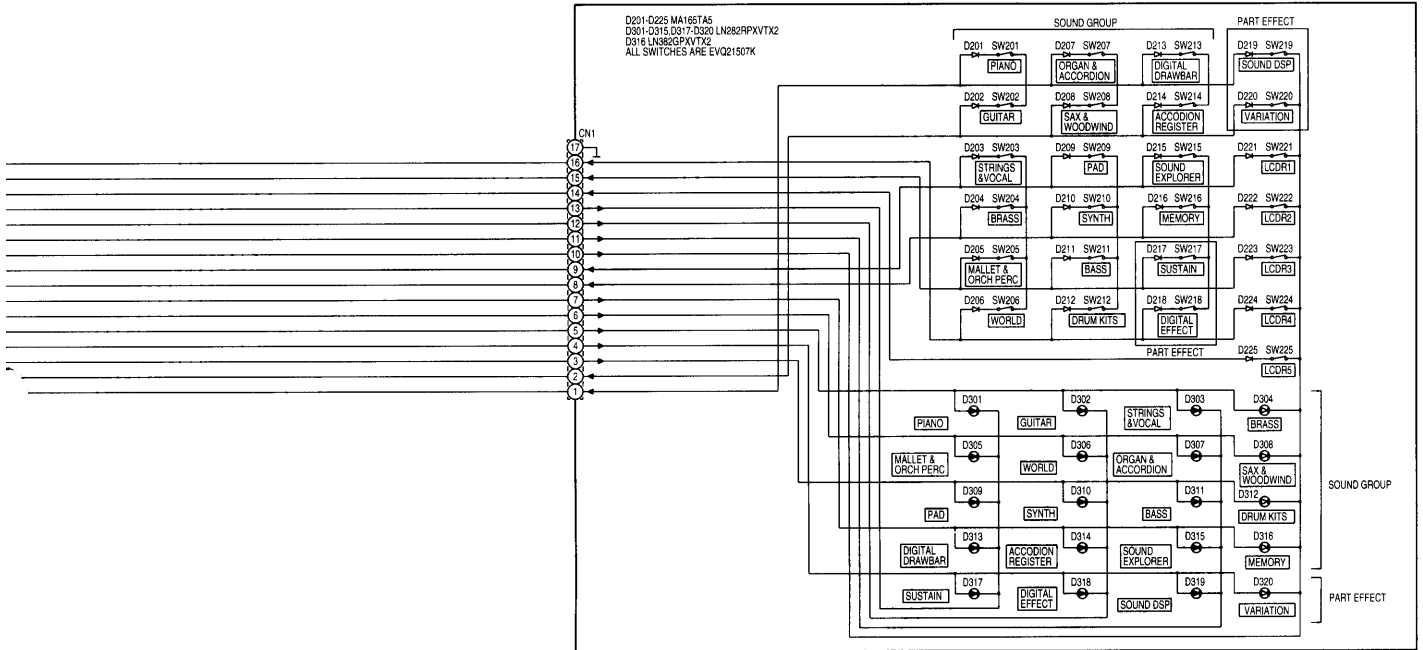
## LCDC CIRCUIT



D230-D233, D238-D241, MA165TA5  
 D246-D249, D254-D257, D261-D272, D351-D358, D369, D372-D376 LN382GPXVTX3  
 D359-D368, D370, D371 LN282RPXVTX3  
 ALL SWITCHES ARE EVQ21507K

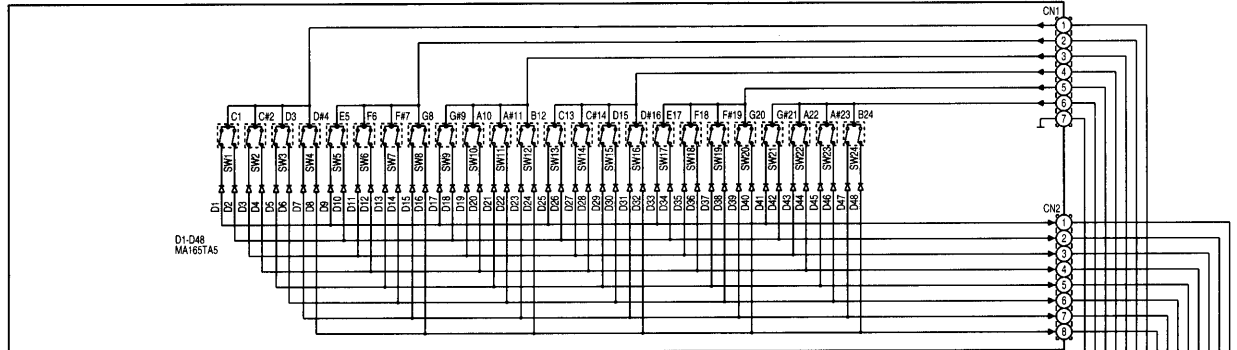


# M LCDR CIRCUIT

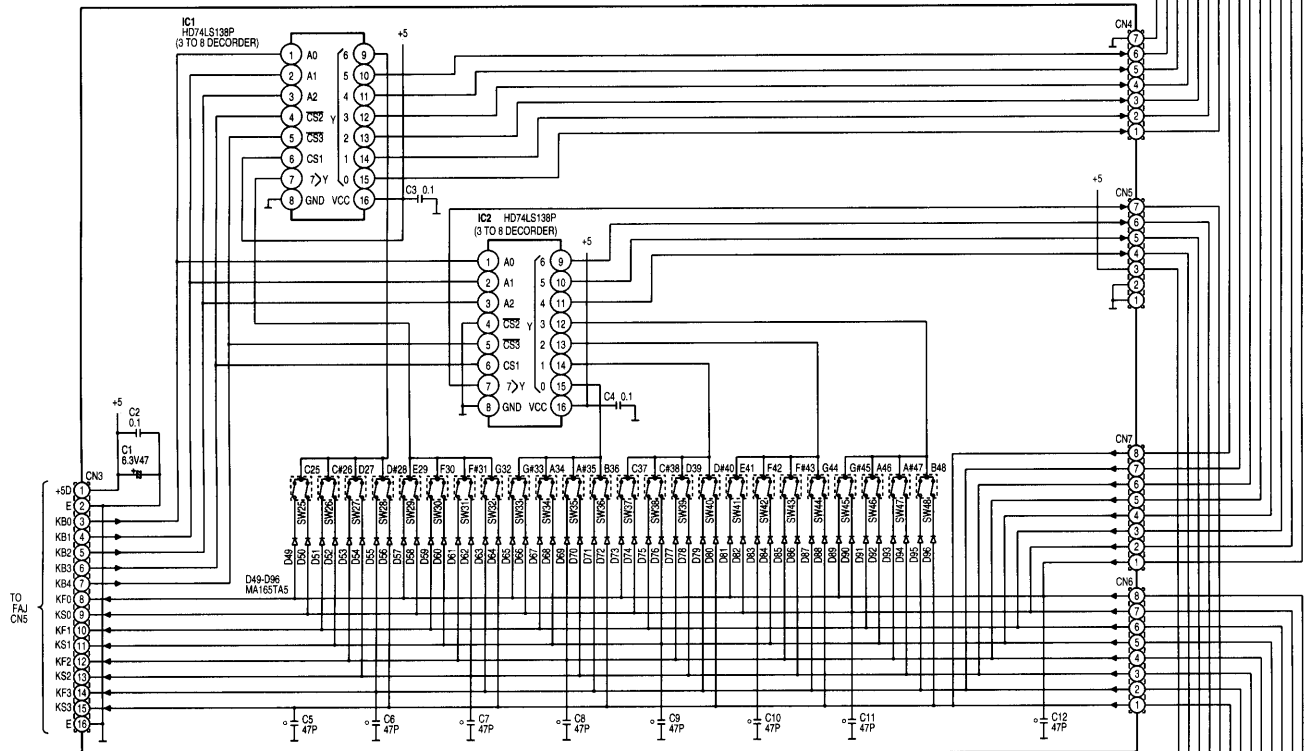


# F CPC CIRCUIT

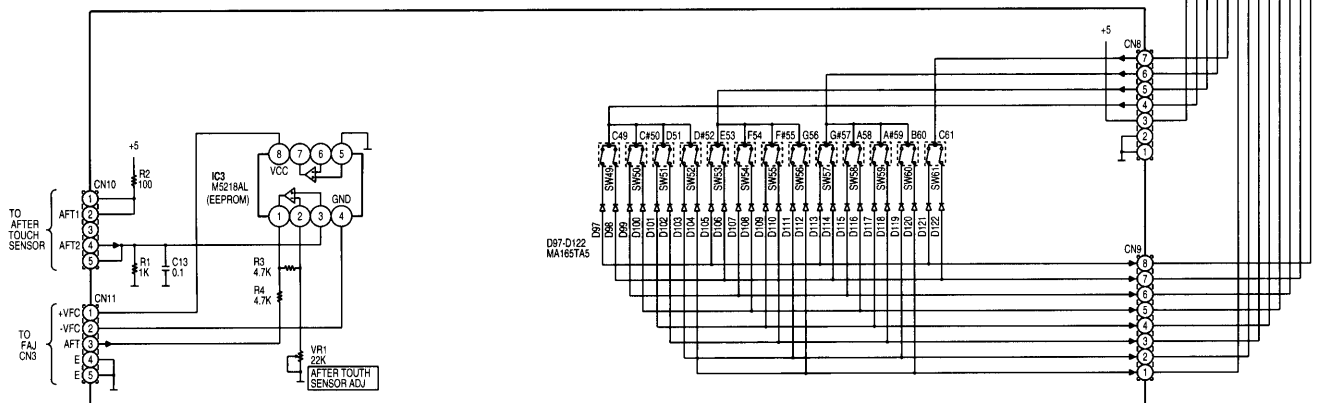
## Q MKB1 CIRCUIT



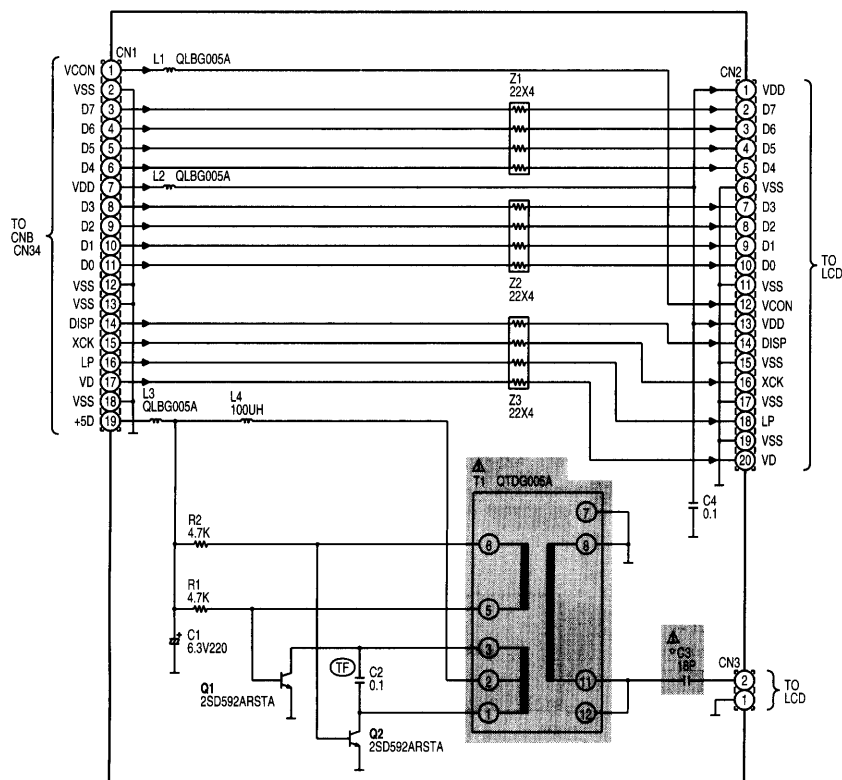
## R MKB2 CIRCUIT



## S MKB3 CIRCUIT

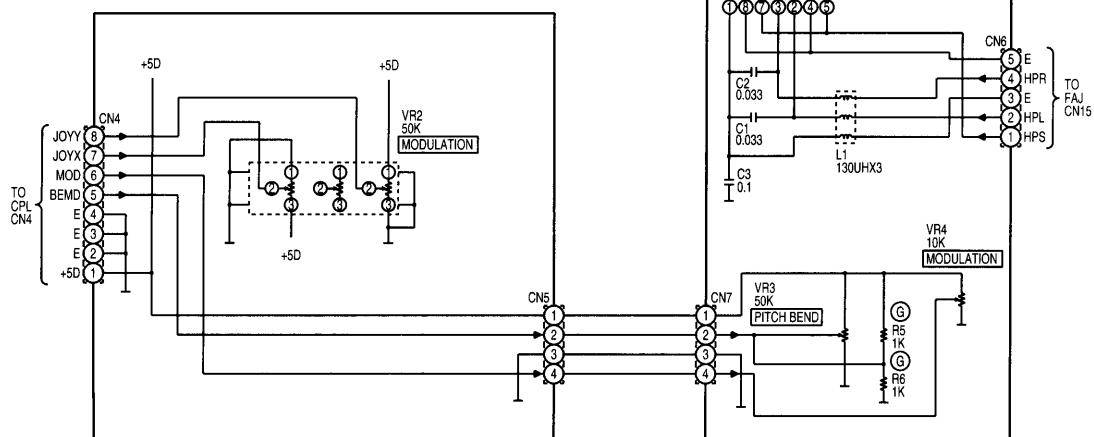


## K INV CIRCUIT

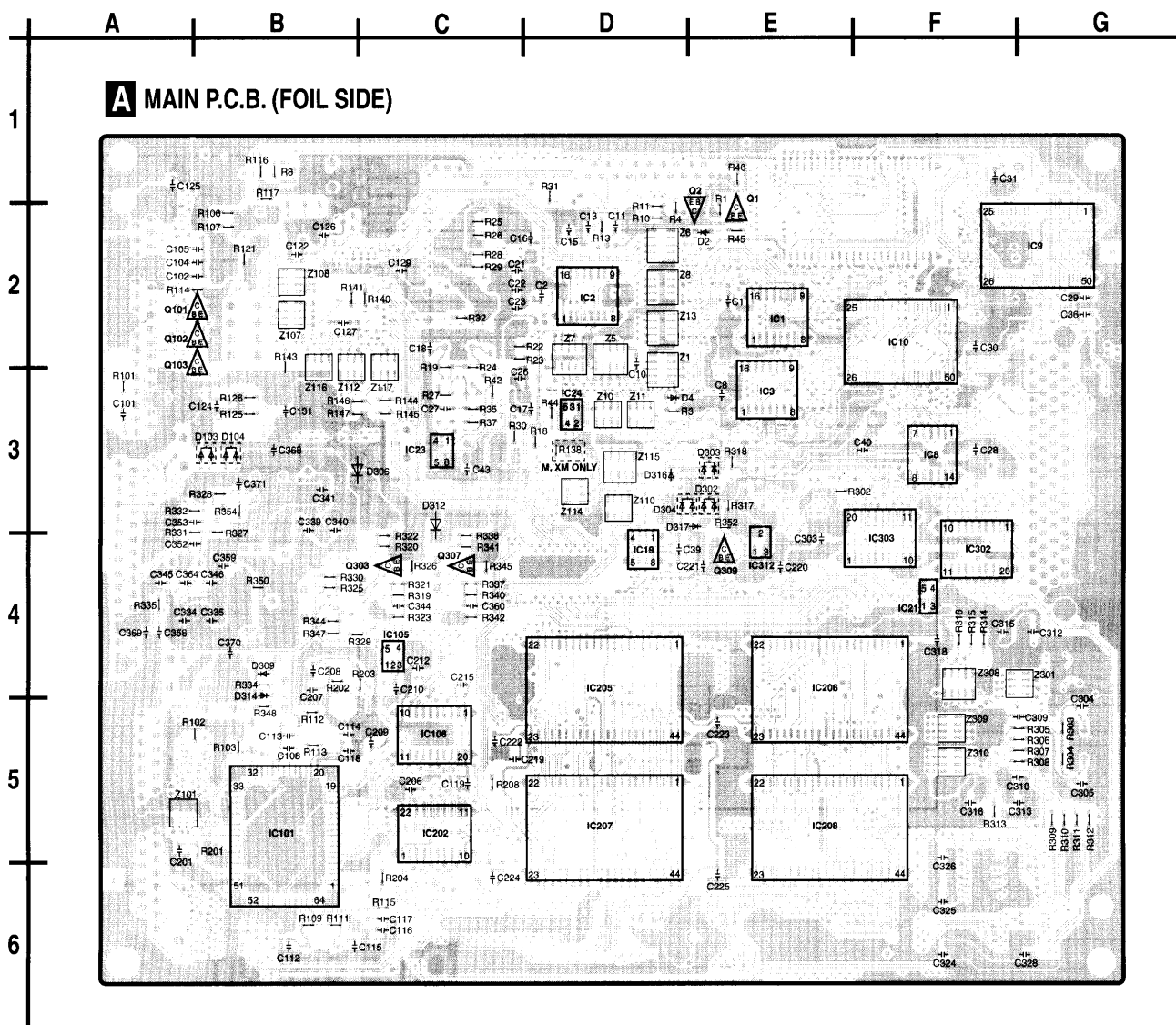


## O HB CIRCUIT

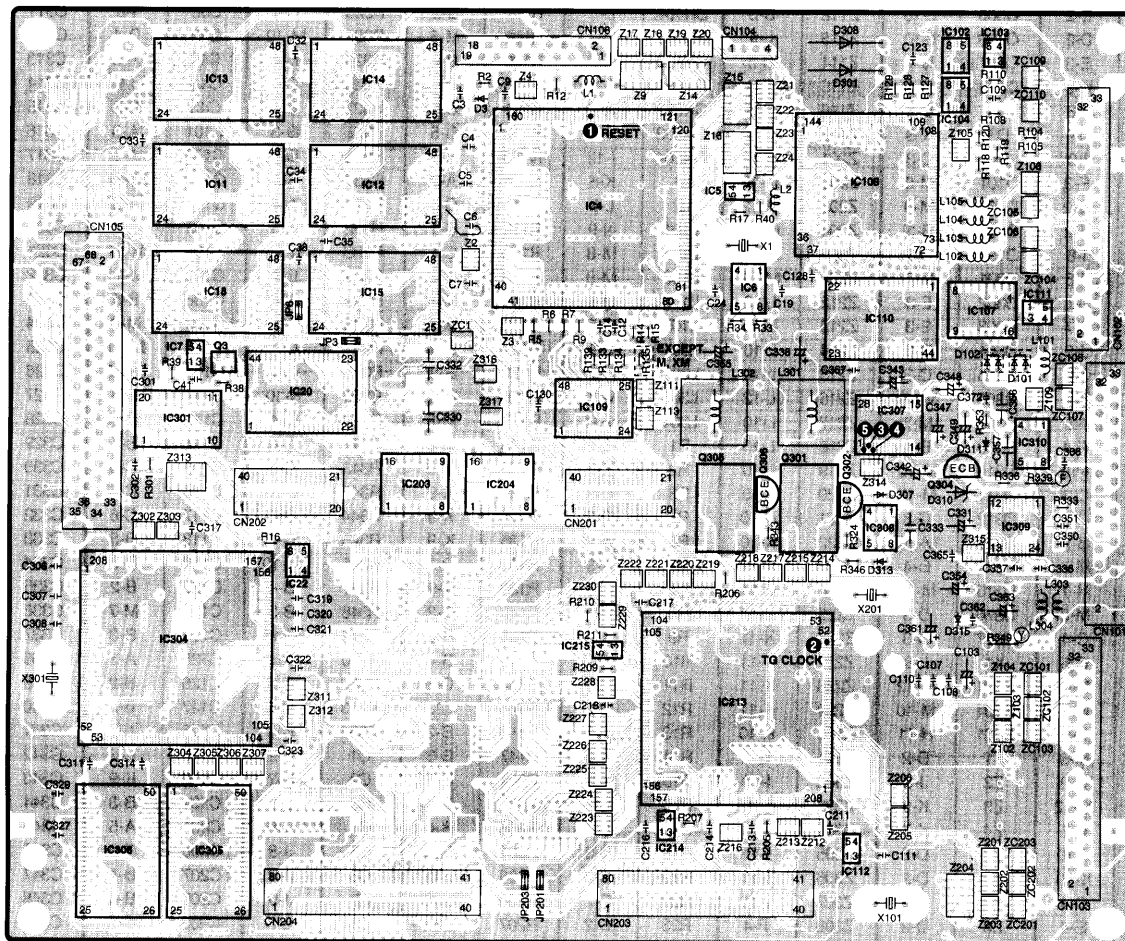
## P MB CIRCUIT



## 12 Printed Circuit Board



## A MAIN P.C.B. (COMPONENT SIDE)



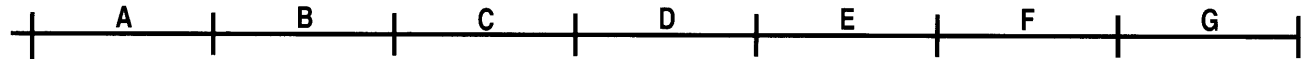
## ELECTRICAL PARTS LOCATION

| Ref.No.                                          | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|--------------------------------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>A MAIN P.C.B. (COMPONENT &amp; FOIL SIDE)</b> |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |
| IC1                                              | E-2    | Q305    | L-10   | Z112    | B-3    | CN104   | L-7    | R107    | B-2    | R323    | C-4    | C38     | I-8    | C311    | H-11   |
| IC2                                              | D-2    | Q306    | L-10   | Z113    | L-9    | CN105   | H-8    | R108    | M-8    | R324    | M-10   | C39     | D-4    | C312    | G-4    |
| IC3                                              | E-3    | Q307    | C-4    | Z114    | D-3    | CN106   | K-7    | R109    | B-6    | R325    | B-4    | C40     | F-3    | C313    | F-5    |
| IC4                                              | K-8    | Q309    | E-4    | Z115    | D-3    | CN201   | K-10   | R110    | M-7    | R326    | C-4    | C41     | I-9    | C314    | I-11   |
| IC5                                              | L-8    | D2      | E-2    | Z116    | B-3    | CN202   | I-10   | R111    | B-6    | R327    | B-4    | C43     | C-3    | C315    | F-4    |
| IC6                                              | L-9    | D3      | K-8    | Z117    | C-3    | CN203   | K-12   | R112    | B-5    | R328    | B-3    | C101    | A-3    | C316    | F-5    |
| IC7                                              | I-9    | D4      | D-3    | Z201    | M-12   | CN204   | I-12   | R113    | B-5    | R329    | B-4    | C102    | A-2    | C317    | I-10   |
| IC8                                              | F-3    | D101    | M-9    | Z202    | M-12   | L1      | K-8    | R114    | A-2    | R330    | B-4    | C103    | M-11   | C318    | F-4    |
| IC9                                              | G-2    | D102    | M-9    | Z203    | M-12   | L2      | L-8    | R115    | C-6    | R331    | A-4    | C104    | A-2    | C319    | J-10   |
| IC10                                             | F-2    | D103    | B-3    | Z204    | M-12   | L101    | N-9    | R116    | B-1    | R332    | A-3    | C105    | A-2    | C320    | J-10   |
| IC11                                             | I-8    | D104    | B-3    | Z205    | M-12   | L102    | M-8    | R117    | B-1    | R333    | N-10   | C106    | M-11   | C321    | J-11   |
| IC12                                             | J-8    | D301    | M-7    | Z206    | M-11   | L103    | M-8    | R118    | M-8    | R334    | B-4    | C107    | M-11   | C322    | I-11   |
| IC13                                             | I-7    | D302    | E-3    | Z212    | L-12   | L104    | M-8    | R119    | M-8    | R335    | A-4    | C108    | B-5    | C323    | I-11   |
| IC14                                             | J-7    | D303    | E-3    | Z213    | L-12   | L105    | M-8    | R120    | M-8    | R336    | M-10   | C109    | M-8    | C324    | F-6    |
| IC15                                             | J-9    | D304    | D-3    | Z214    | L-10   | L301    | L-9    | R121    | B-2    | R337    | C-4    | C110    | M-11   | C325    | F-6    |
| IC18                                             | I-9    | D306    | C-3    | Z215    | L-10   | L302    | L-9    | R125    | B-3    | R338    | C-4    | C111    | M-12   | C326    | F-6    |
| IC19                                             | D-4    | D307    | M-10   | Z216    | L-12   | L303    | N-10   | R126    | B-3    | R339    | N-10   | C112    | B-6    | C327    | H-11   |
| IC20                                             | I-9    | D308    | M-7    | Z217    | L-10   | L304    | N-11   | R127    | M-8    | R340    | C-4    | C113    | B-5    | C328    | G-6    |
| IC21                                             | F-4    | D309    | B-4    | Z218    | L-10   | R1      | E-2    | R128    | M-8    | R341    | C-4    | C114    | B-5    | C329    | H-11   |
| IC22                                             | I-10   | D310    | M-10   | Z219    | L-10   | R2      | K-7    | R129    | M-8    | R342    | C-4    | C115    | C-6    | C330    | J-9    |
| IC23                                             | C-3    | D311    | M-10   | Z220    | L-10   | R3      | D-3    | R133    | K-9    | R343    | L-10   | C116    | C-6    | C331    | M-10   |
| IC24                                             | D-3    | D312    | C-3    | Z221    | K-10   | R4      | D-2    | R134    | K-9    | R344    | B-4    | C117    | C-6    | C332    | J-9    |
| IC101                                            | B-5    | D313    | M-10   | Z222    | K-10   | R5      | K-9    | R135    | K-9    | R345    | C-4    | C118    | B-5    | C333    | M-10   |
| IC102                                            | M-7    | D314    | B-4    | Z223    | K-12   | R6      | K-9    | R138    | D-3    | R346    | M-10   | C119    | B-5    | C334    | A-4    |
| IC103                                            | M-7    | D315    | M-11   | Z224    | K-11   | R7      | K-9    | R139    | K-9    | R347    | B-4    | C122    | B-2    | C335    | B-4    |
| IC104                                            | M-8    | D316    | D-3    | Z225    | K-11   | R8      | B-1    | R140    | C-2    | R348    | B-5    | C123    | M-7    | C336    | N-10   |
| IC105                                            | C-4    | D317    | D-3    | Z226    | K-11   | R9      | K-9    | R141    | B-2    | R349    | M-11   | C124    | B-3    | C337    | M-10   |
| IC106                                            | C-5    | X1      | L-8    | Z227    | K-11   | R10     | D-2    | R143    | B-2    | R350    | B-4    | C125    | A-1    | C338    | L-9    |
| IC107                                            | M-9    | X101    | M-12   | Z228    | K-11   | R11     | D-2    | R144    | C-3    | R352    | E-3    | C126    | B-2    | C339    | B-3    |
| IC108                                            | M-8    | X201    | M-10   | Z229    | K-11   | R12     | D-8    | R145    | C-3    | R353    | M-9    | C127    | B-2    | C340    | B-3    |
| IC109                                            | K-9    | X301    | H-11   | Z230    | K-10   | R13     | D-2    | R146    | B-3    | R354    | B-3    | C128    | L-9    | C341    | B-3    |
| IC110                                            | M-9    | Z1      | D-2    | Z301    | G-4    | R14     | K-9    | R147    | B-3    | C1      | E-2    | C129    | C-2    | C342    | M-10   |
| IC111                                            | N-9    | Z2      | J-8    | Z302    | I-10   | R15     | L-9    | R201    | B-5    | C2      | D-2    | C130    | K-9    | C343    | M-9    |
| IC112                                            | M-12   | Z3      | K-9    | Z303    | I-10   | R16     | I-10   | R202    | B-4    | C3      | J-8    | C131    | B-3    | C344    | C-4    |
| IC202                                            | C-5    | Z4      | K-7    | Z304    | I-11   | R17     | L-8    | R203    | B-4    | C4      | J-8    | C201    | A-5    | C345    | A-4    |
| IC203                                            | J-10   | Z5      | D-2    | Z305    | I-11   | R18     | D-3    | R204    | C-6    | C5      | J-8    | C206    | C-5    | C346    | B-4    |
| IC204                                            | K-10   | Z6      | D-2    | Z306    | I-11   | R19     | C-2    | R205    | L-12   | C6      | J-8    | C207    | B-4    | C347    | M-9    |
| IC205                                            | D-4    | Z7      | D-2    | Z307    | I-11   | R22     | D-2    | R206    | L-10   | C7      | J-9    | C208    | B-4    | C348    | M-9    |
| IC206                                            | E-4    | Z8      | D-2    | Z308    | F-4    | R23     | D-2    | R207    | L-12   | C8      | E-3    | C209    | C-5    | C349    | M-9    |
| IC207                                            | D-5    | Z9      | K-8    | Z309    | F-5    | R24     | C-2    | R208    | C-5    | C9      | K-7    | C210    | C-4    | C350    | N-10   |
| IC208                                            | E-5    | Z10     | D-3    | Z310    | F-5    | R25     | C-2    | R209    | K-11   | C10     | D-3    | C211    | L-12   | C351    | N-10   |
| IC213                                            | L-11   | Z11     | D-3    | Z311    | J-11   | R26     | C-2    | R210    | K-10   | C11     | D-2    | C212    | C-4    | C352    | A-4    |
| IC214                                            | L-12   | Z13     | D-2    | Z312    | J-11   | R27     | C-3    | R211    | K-11   | C12     | K-9    | C213    | L-12   | C353    | A-3    |
| IC215                                            | K-11   | Z14     | L-8    | Z313    | I-10   | R28     | C-2    | R301    | I-10   | C13     | D-2    | C214    | L-12   | C354    | M-10   |
| IC301                                            | I-9    | Z15     | L-7    | Z314    | M-10   | R29     | C-2    | R302    | F-3    | C14     | K-9    | C215    | C-4    | C355    | L-9    |
| IC302                                            | F-4    | Z16     | L-8    | Z315    | M-10   | R30     | C-3    | R303    | G-5    | C15     | D-2    | C216    | K-12   | C356    | M-9    |
| IC303                                            | F-4    | Z17     | K-7    | Z316    | K-9    | R31     | D-1    | R304    | G-5    | C16     | C-2    | C217    | L-10   | C357    | M-10   |
| IC304                                            | I-11   | Z18     | K-7    | Z317    | K-9    | R32     | C-2    | R305    | G-5    | C17     | C-3    | C218    | K-11   | C358    | A-4    |
| IC305                                            | I-12   | Z19     | L-7    | ZC1     | J-9    | R33     | L-9    | R306    | G-5    | C18     | C-2    | C219    | C-5    | C359    | B-4    |
| IC306                                            | I-12   | Z20     | L-7    | ZC101   | N-11   | R34     | L-9    | R307    | G-5    | C19     | L-9    | C220    | E-4    | C360    | C-4    |
| IC307                                            | M-9    | Z21     | L-8    | ZC102   | N-11   | R35     | C-3    | R308    | G-5    | C21     | C-2    | C221    | D-4    | C361    | M-11   |
| IC308                                            | M-10   | Z22     | L-8    | ZC103   | N-11   | R37     | C-3    | R309    | G-5    | C22     | C-2    | C222    | C-5    | C362    | M-10   |
| IC309                                            | M-10   | Z23     | L-8    | ZC104   | N-8    | R38     | I-9    | R310    | G-5    | C23     | C-2    | C223    | E-5    | C363    | M-10   |
| IC310                                            | N-9    | Z24     | L-8    | ZC105   | M-8    | R39     | I-9    | R311    | G-5    | C24     | L-9    | C224    | C-6    | C364    | A-4    |
| IC312                                            | E-4    | Z101    | A-5    | ZC106   | M-8    | R40     | L-8    | R312    | G-5    | C26     | C-3    | C225    | E-6    | C365    | M-10   |
| Q1                                               | E-2    | Z102    | M-11   | ZC107   | N-9    | R42     | C-3    | R313    | F-5    | C27     | C-3    | C301    | I-9    | C366    | N-10   |
| Q2                                               | E-1    | Z103    | M-11   | ZC108   | N-9    | R44     | D-3    | R314    | F-4    | C28     | F-3    | C302    | I-10   | C367    | L-9    |
| Q3                                               | I-9    | Z104    | M-11   | ZC109   | N-7    | R45     | E-2    | R315    | F-4    | C29     | G-2    | C303    | E-4    | C368    | B-3    |
| Q101                                             | A-2    | Z105    | M-8    | ZC110   | N-9    | R46     | E-1    | R316    | F-4    | C30     | F-2    | C304    | G-5    | C369    | A-4    |
| Q102                                             | A-2    | Z106    | N-8    | ZC201   | N-12   | R101    | A-3    | R317    | E-3    | C31     | F-1    | C305    | G-5    | C370    | B-4    |
| Q103                                             | A-2    | Z107    | B-2    | ZC202   | M-12   | R102    | B-5    | R318    | E-3    | C32     | I-7    | C306    | H-10   | C371    | B-3    |
| Q301                                             | L-10   | Z108    | B-2    | ZC203   | M-12   | R103    | B-5    | R319    | C-4    | C33     | I-8    | C307    | H-10   | C372    | M-9    |
| Q302                                             | M-10   | Z109    | N-9    | CN101   | N-11   | R104    | N-8    | R320    | C-4    | C34     | I-8    | C308    | H-10   |         |        |
| Q303                                             | B-4    | Z110    | D-3    | CN102   | N-9    | R105    | N-8    | R321    | C-4    | C35     | J-8    | C309    | G-5    |         |        |
| Q304                                             | M-10   | Z111    | L-9    | CN103   | N-12   | R106    | B-2    | R322    | C-4    | C36     | G-2    | C310    | F-5    |         |        |

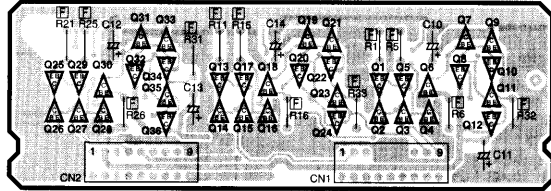


## ELECTRICAL PARTS LOCATION

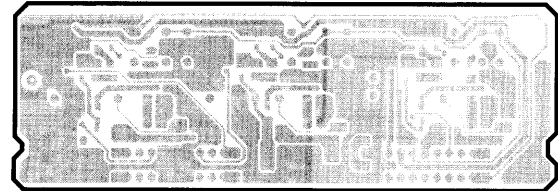
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|---------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>B</b> FAJ P.C.B. |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |
| IC1                 | B-2    | D10     | B-2    | CN3     | D-7    | R19     | B-4    | R68     | B-5    | R117    | C-5    | C24     | D-5    | C75     | B-5    |
| IC2                 | D-5    | D11     | B-3    | CN4     | E-8    | R20     | B-3    | R69     | C-2    | R118    | D-2    | C25     | B-4    | C76     | B-5    |
| IC3                 | C-5    | D12     | B-6    | CN5     | E-7    | R21     | B-3    | R70     | C-3    | R119    | C-5    | C26     | B-4    | C77     | C-2    |
| IC4                 | A-6    | D13     | C-3    | CN6     | B-6    | R22     | B-3    | R71     | B-5    | R120    | D-2    | C27     | B-4    | C78     | C-3    |
| IC5                 | B-5    | D14     | C-4    | CN7     | D-6    | R23     | B-3    | R72     | C-3    | R121    | C-2    | C28     | B-4    | C79     | B-5    |
| IC6                 | B-5    | D15     | C-2    | CN8     | C-7    | R24     | B-3    | R73     | C-2    | R122    | C-2    | C29     | B-4    | C80     | C-2    |
| IC7                 | B-4    | D16     | C-3    | CN9     | B-7    | R25     | B-3    | R74     | C-3    | R123    | C-5    | C30     | B-4    | C81     | C-3    |
| IC8                 | B-3    | D17     | C-3    | CN10    | B-7    | R26     | B-3    | R75     | B-5    | R124    | C-5    | C31     | D-5    | C82     | C-4    |
| IC9                 | B-3    | D18     | C-2    | CN11    | B-1    | R27     | B-2    | R76     | B-5    | R125    | C-5    | C32     | C-5    | C83     | C-4    |
| IC10                | B-2    | D19     | C-3    | CN12    | A-7    | R28     | B-3    | R77     | B-5    | R126    | C-4    | C33     | B-3    | C84     | B-5    |
| IC11                | B-2    | D20     | C-5    | CN13    | C-3    | R29     | B-3    | R78     | C-3    | R127    | C-5    | C34     | D-5    | C85     | C-3    |
| IC12                | C-2    | D21     | C-5    | CN14    | C-4    | R30     | B-3    | R79     | C-4    | R128    | C-6    | C35     | D-2    | C86     | C-2    |
| IC13                | C-2    | D22     | C-5    | CN15    | A-7    | R31     | B-3    | R80     | C-2    | R129    | C-6    | C36     | B-4    | C87     | C-3    |
| IC14                | C-3    | D23     | C-5    | CN16    | C-1    | R32     | B-3    | R81     | B-5    | R130    | C-4    | C37     | B-3    | C88     | B-5    |
| IC15                | C-4    | D24     | C-2    | CN17    | B-7    | R33     | B-3    | R82     | B-5    | R131    | C-5    | C38     | B-4    | C89     | B-5    |
| Q1                  | A-1    | D25     | D-1    | CN18    | D-2    | R34     | B-5    | R83     | C-3    | R132    | C-6    | C39     | B-3    | C90     | B-5    |
| Q2                  | A-2    | D40     | C-5    | JK1     | A-1    | R35     | A-6    | R84     | C-4    | R133    | C-6    | C41     | C-5    | C91     | B-5    |
| Q3                  | B-6    | L1      | C-8    | JK2     | A-2    | R36     | B-2    | R85     | B-5    | R134    | C-4    | C42     | B-3    | C92     | C-4    |
| Q4                  | B-5    | L2      | C-8    | JK3     | A-3    | R37     | B-2    | R86     | B-5    | R135    | C-5    | C43     | B-3    | C93     | B-4    |
| Q5                  | B-5    | L3      | C-8    | JK4     | A-5    | R38     | B-3    | R87     | C-2    | R136    | C-4    | C44     | B-3    | C94     | C-3    |
| Q7                  | B-5    | L4      | C-8    | JK5     | A-5    | R39     | B-3    | R88     | B-5    | R137    | C-4    | C45     | B-3    | C95     | C-4    |
| Q8                  | C-2    | L5      | B-8    | JK6     | A-4    | R40     | A-6    | R89     | B-5    | R138    | C-4    | C46     | A-2    | C96     | C-2    |
| Q9                  | C-5    | L6      | B-8    | JK7     | A-4    | R41     | B-3    | R90     | C-3    | R139    | C-4    | C47     | B-6    | C97     | B-4    |
| Q10                 | C-3    | L7      | B-7    | JK8     | A-3    | R42     | B-3    | R91     | C-3    | R144    | C-2    | C48     | A-6    | C98     | B-3    |
| Q11                 | C-4    | L8      | B-7    | IP1     | B-8    | R43     | B-6    | R92     | C-3    | R145    | C-3    | C49     | B-3    | C99     | B-4    |
| Q12                 | C-5    | L9      | B-7    | IP2     | D-7    | R44     | A-6    | R93     | C-4    | R146    | C-4    | C50     | B-2    | C100    | C-4    |
| Q13                 | C-5    | L10     | A-2    | IP3     | C-7    | R45     | B-6    | R94     | C-2    | R147    | C-1    | C51     | B-3    | C101    | B-4    |
| Q14                 | D-2    | L11     | A-2    | IP4     | C-8    | R46     | B-2    | R95     | B-3    | R148    | C-1    | C52     | B-2    | C102    | C-3    |
| Q15                 | D-2    | L12     | D-4    | IP5     | D-6    | R47     | B-2    | R96     | B-4    | C1      | C-8    | C53     | A-5    | C103    | C-2    |
| Q16                 | C-5    | L13     | D-4    | IP6     | C-6    | R48     | B-2    | R97     | C-3    | C2      | C-8    | C54     | B-6    | C104    | A-6    |
| Q17                 | C-5    | L14     | D-4    | IP7     | C-4    | R49     | B-2    | R98     | C-4    | C3      | D-8    | C55     | D-1    | C105    | B-6    |
| Q18                 | C-5    | L15     | D-4    | IP8     | C-4    | R50     | A-6    | R99     | C-2    | C4      | E-7    | C57     | A-7    | C106    | D-4    |
| Q19                 | C-5    | L16     | A-2    | F4      | D-7    | R51     | B-2    | R100    | C-3    | C5      | C-7    | C58     | A-6    | C107    | D-2    |
| Q20                 | C-5    | L17     | A-5    | R1      | B-2    | R52     | B-2    | R101    | C-3    | C6      | B-8    | C59     | B-2    | C108    | C-4    |
| Q21                 | C-5    | L18     | B-5    | R3      | D-8    | R53     | A-6    | R102    | C-2    | C7      | B-6    | C60     | B-2    | C109    | D-4    |
| Q22                 | C-4    | L19     | B-4    | R4      | B-2    | R54     | B-2    | R103    | B-4    | C8      | B-6    | C61     | B-2    | C110    | D-4    |
| Q23                 | C-5    | L20     | B-6    | R5      | D-8    | R55     | B-2    | R104    | B-4    | C9      | B-2    | C62     | B-2    | C114    | C-2    |
| Q24                 | C-4    | L21     | B-6    | R6      | D-8    | R56     | A-6    | R105    | C-3    | C10     | B-7    | C63     | B-2    | C115    | C-6    |
| Q25                 | C-4    | L22     | D-3    | R7      | B-4    | R57     | B-5    | R106    | C-3    | C11     | A-7    | C64     | B-2    | C116    | C-4    |
| Q26                 | C-1    | L23     | D-3    | R8      | B-4    | R58     | C-2    | R107    | B-6    | C13     | C-7    | C65     | B-6    | C117    | C-7    |
| D1                  | B-2    | L24     | D-4    | R9      | B-2    | R59     | C-2    | R108    | B-6    | C14     | B-4    | C66     | A-6    |         |        |
| D2                  | B-2    | L28     | D-2    | R11     | B-4    | R60     | C-2    | R109    | C-3    | C15     | B-4    | C67     | A-6    |         |        |
| D3                  | C-8    | L29     | C-6    | R12     | B-4    | R61     | C-2    | R110    | C-3    | C16     | D-7    | C68     | A-7    |         |        |
| D4                  | C-8    | L30     | C-2    | R13     | B-2    | R62     | B-5    | R111    | C-5    | C17     | D-6    | C69     | C-2    |         |        |
| D5                  | C-7    | L36     | B-6    | R14     | C-5    | R63     | B-5    | R112    | C-5    | C18     | D-7    | C70     | B-2    |         |        |
| D6                  | D-7    | L38     | A-6    | R15     | C-5    | R64     | B-6    | R113    | C-4    | C19     | D-6    | C71     | C-2    |         |        |
| D7                  | C-6    | L39     | B-6    | R16     | B-4    | R65     | C-3    | R114    | C-4    | C21     | B-4    | C72     | C-2    |         |        |
| D8                  | D-6    | CN1     | D-8    | R17     | B-4    | R66     | C-3    | R115    | C-5    | C22     | B-4    | C73     | B-5    |         |        |
| D9                  | B-2    | CN2     | B-8    | R18     | B-4    | R67     | B-5    | R116    | C-5    | C23     | D-5    | C74     | B-5    |         |        |



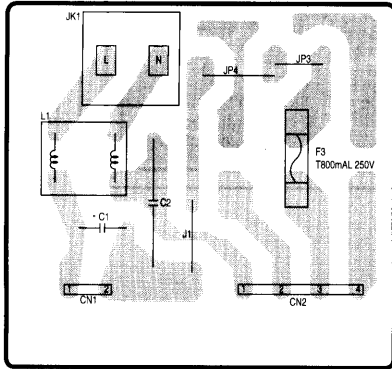
**C** ASUB P.C.B. (COMPONENT SIDE)



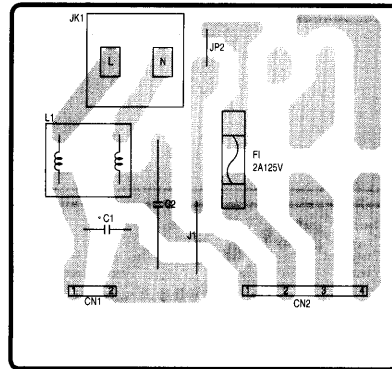
**C** ASUB P.C.B. (FOIL SIDE)



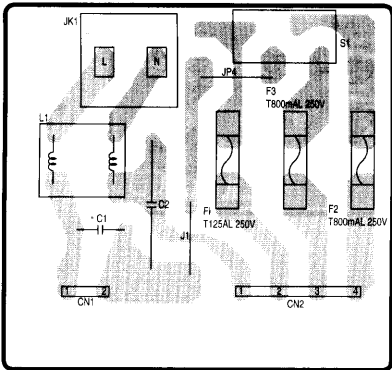
**D** ACP P.C.B. (EN,EZ,EK,EW,EF,EA,EP,EH,XL,XR,XP,XW)



**D** ACP P.C.B. (M,MC,XM)



**D** ACP P.C.B. (X,XS,XD,XT,XA)



**ELECTRICAL PARTS LOCATION**

| Ref.No.              | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|----------------------|--------|---------|--------|---------|--------|
| <b>C</b> ASUB P.C.B. |        |         |        |         |        |
| Q1                   | C-1    | Q20     | C-1    | R1      | C-1    |
| Q2                   | C-2    | Q21     | C-1    | R5      | C-1    |
| Q3                   | C-2    | Q22     | C-2    | R6      | C-2    |
| Q4                   | C-2    | Q23     | C-2    | R11     | B-1    |
| Q5                   | C-1    | Q24     | C-2    | R15     | B-1    |
| Q6                   | C-1    | Q25     | A-1    | R16     | C-2    |
| Q7                   | D-1    | Q26     | A-2    | R21     | A-1    |
| Q8                   | C-1    | Q27     | A-2    | R25     | A-1    |
| Q9                   | D-1    | Q28     | B-2    | R26     | B-2    |
| Q10                  | D-2    | Q29     | A-1    | R31     | B-1    |
| Q11                  | D-2    | Q30     | B-1    | R32     | D-2    |
| Q12                  | D-2    | Q31     | B-1    | R33     | C-2    |
| Q13                  | B-1    | Q32     | B-1    | C10     | C-1    |
| Q14                  | B-2    | Q33     | B-1    | C11     | D-2    |
| Q15                  | B-2    | Q34     | B-2    | C12     | B-1    |
| Q16                  | B-2    | Q35     | B-2    | C13     | B-2    |
| Q17                  | B-1    | Q36     | B-2    | C14     | B-1    |
| Q18                  | B-1    | CN1     | C-2    |         |        |
| Q19                  | C-1    | CN2     | A-2    |         |        |

**ELECTRICAL PARTS LOCATION**

| Ref.No.             | Lo.No. |
|---------------------|--------|
| <b>D</b> ACP P.C.B. |        |
| L1                  | A-6    |
| CN1                 | A-7    |
| CN2                 | C-7    |
| JK1                 | A-6    |
| F1                  | B-7    |
| F2                  | C-7    |
| F3                  | B-6    |
| C1                  | B-7    |
| C2                  | B-7    |
| S1                  | C-6    |



## ELECTRICAL PARTS LOCATION

| Ref.No.             | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|---------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>E</b> CPL P.C.B. |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |
| IC1                 | F-3    | D24     | D-6    | D130    | B-4    | R9      | C-2    | R24     | D-2    | R39     | E-3    | C11     | D-3    | SW72    | D-5    |
| IC2                 | B-5    | D70     | C-3    | CN1     | E-5    | R10     | C-2    | R25     | D-2    | R40     | D-3    | C12     | D-3    | SW73    | D-5    |
| Q1                  | D-3    | D71     | B-3    | CN2     | F-1    | R11     | C-3    | R26     | C-5    | R41     | C-2    | C13     | D-4    | SW74    | B-5    |
| Q2                  | D-3    | D72     | D-5    | CN3     | E-1    | R12     | C-3    | R27     | C-5    | R42     | B-2    | C14     | D-3    | SW75    | F-6    |
| Q3                  | D-3    | D73     | D-5    | CN4     | B-2    | R13     | F-3    | R28     | C-5    | R43     | B-2    | C15     | F-3    | SW76    | F-6    |
| Q4                  | D-3    | D74     | B-5    | VR1     | F-4    | R14     | D-6    | R29     | C-5    | R44     | B-2    | C16     | E-3    | SW77    | F-6    |
| Q5                  | D-2    | D75     | F-6    | VR2     | E-4    | R15     | D-6    | R30     | C-5    | C1      | E-3    | C17     | B-5    | SW78    | C-2    |
| Q6                  | E-6    | D76     | F-6    | R1      | F-3    | R16     | B-6    | R31     | C-5    | C2      | E-2    | SW7     | B-6    | X1      | F-3    |
| Q7                  | E-6    | D77     | F-6    | R2      | F-3    | R17     | E-6    | R32     | C-5    | C4      | F-3    | SW8     | B-6    |         |        |
| Q8                  | D-2    | D78     | C-2    | R3      | E-1    | R18     | B-6    | R33     | E-6    | C5      | E-2    | SW15    | C-6    |         |        |
| D7                  | B-6    | D125    | B-3    | R4      | B-6    | R19     | B-6    | R34     | E-6    | C6      | E-3    | SW16    | C-6    |         |        |
| D8                  | B-6    | D126    | F-5    | R5      | E-2    | R20     | B-6    | R35     | D-2    | C7      | E-2    | SW23    | D-6    |         |        |
| D15                 | C-6    | D127    | F-6    | R6      | E-2    | R21     | C-2    | R36     | C-1    | C8      | E-3    | SW24    | D-6    |         |        |
| D16                 | C-6    | D128    | F-6    | R7      | E-3    | R22     | D-3    | R37     | E-3    | C9      | E-4    | SW70    | C-3    |         |        |
| D23                 | D-6    | D129    | F-2    | R8      | E-3    | R23     | D-2    | R38     | E-3    | C10     | C-2    | SW71    | B-3    |         |        |

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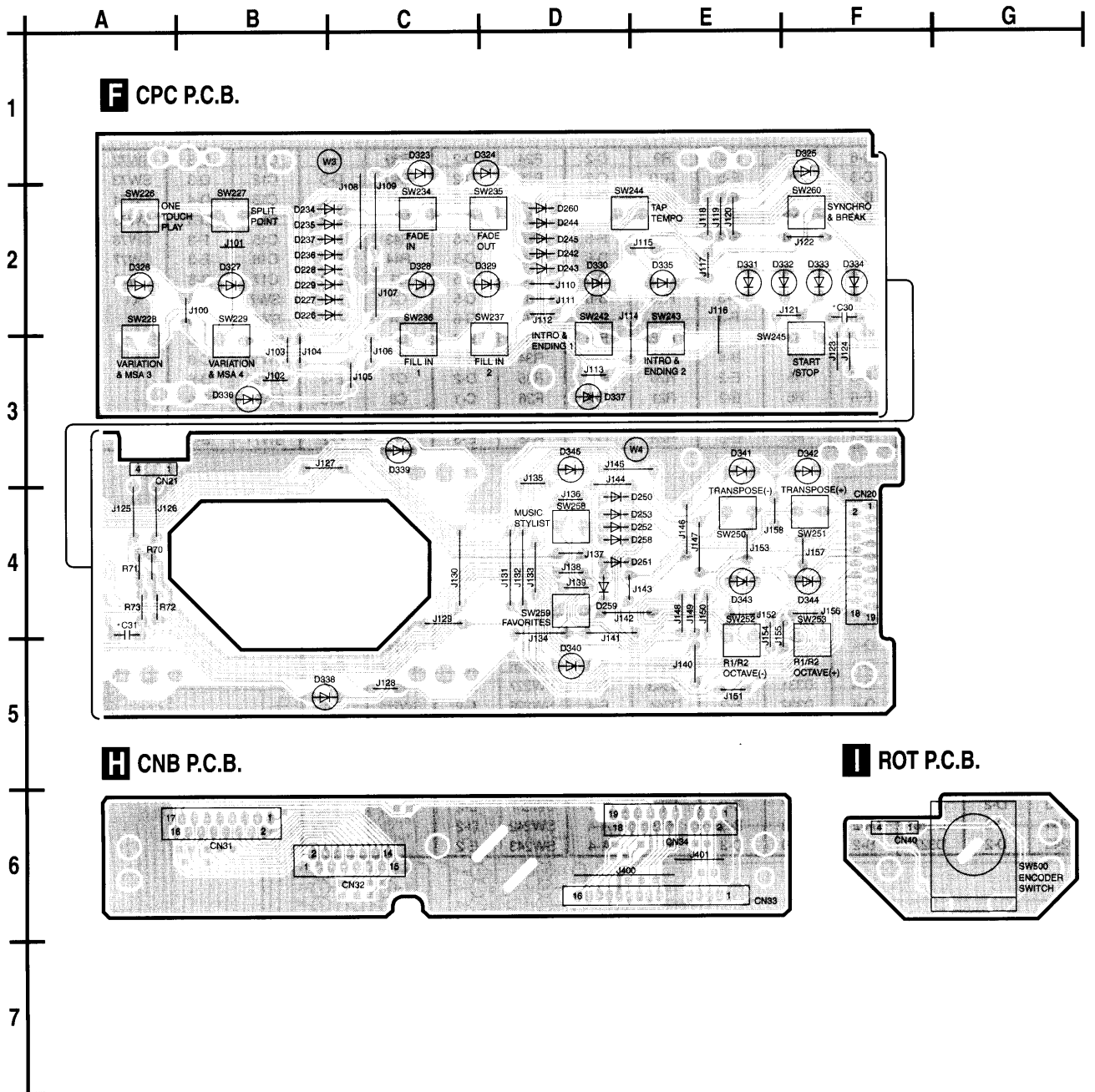
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|---------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>F</b> CPC P.C.B. |        |         |        |         |        |         |        |         |        |         |        |
| D226                | B-2    | D250    | D-4    | D328    | C-2    | D340    | D-4    | C30     | F-2    | SW244   | D-2    |
| D227                | B-2    | D251    | D-4    | D329    | D-2    | D341    | E-3    | C31     | A-4    | SW245   | E-3    |
| D228                | B-2    | D252    | D-4    | D330    | D-2    | D342    | F-3    | SW226   | A-2    | SW250   | E-4    |
| D229                | B-2    | D253    | D-4    | D331    | E-2    | D343    | E-4    | SW227   | B-2    | SW251   | F-4    |
| D234                | B-2    | D258    | D-4    | D332    | E-2    | D344    | F-4    | SW228   | A-2    | SW252   | E-4    |
| D235                | B-2    | D259    | D-4    | D333    | F-2    | D345    | D-3    | SW229   | B-2    | SW253   | F-4    |
| D236                | B-2    | D260    | D-2    | D334    | F-2    | CN20    | F-4    | SW234   | C-2    | SW258   | D-4    |
| D237                | B-2    | D323    | C-1    | D335    | E-2    | CN21    | A-3    | SW235   | D-2    | SW259   | D-4    |
| D242                | D-2    | D324    | D-1    | D336    | B-3    | R70     | A-4    | SW236   | C-2    | SW260   | F-2    |
| D243                | D-2    | D325    | F-1    | D337    | D-3    | R71     | A-4    | SW237   | D-2    |         |        |
| D244                | D-2    | D326    | A-2    | D338    | B-5    | R72     | A-4    | SW242   | D-2    |         |        |
| D245                | D-2    | D327    | B-2    | D339    | C-3    | R73     | A-4    | SW243   | E-2    |         |        |

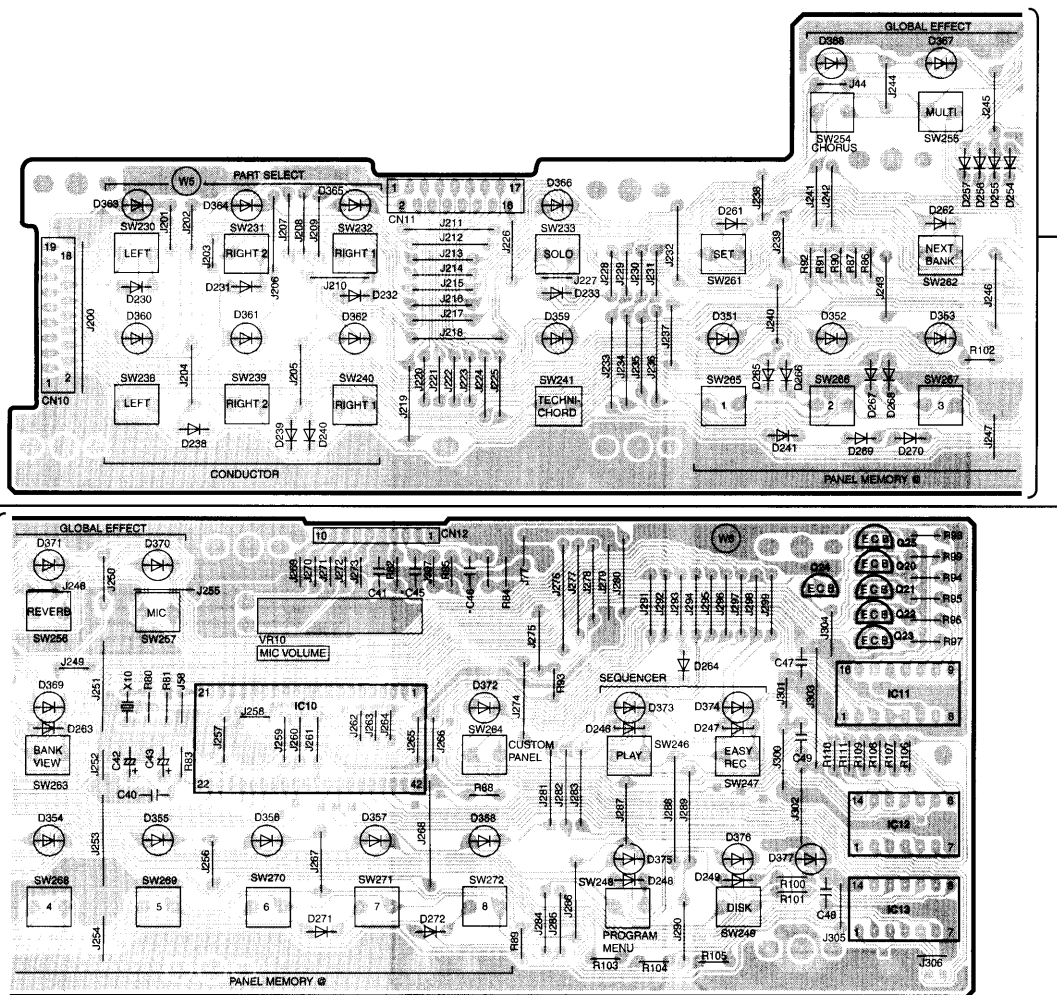
ELECTRICAL  
PARTS LOCATION

| Ref.No.             | Lo.No. |
|---------------------|--------|
| <b>I</b> ROT P.C.B. |        |
| CN40                | F-6    |
| SW500               | G-6    |

ELECTRICAL  
PARTS LOCATION

| Ref.No.             | Lo.No. |
|---------------------|--------|
| <b>H</b> CNB P.C.B. |        |
| CN31                | B-6    |
| CN32                | C-6    |
| CN33                | E-6    |
| CN34                | E-6    |



**G CPR P.C.B.**

**ELECTRICAL PARTS LOCATION**

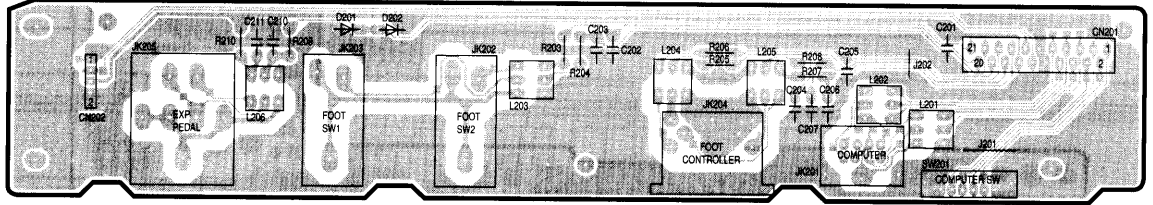
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|---------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>G CPR P.C.B.</b> |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |
| IC10                | C-5    | D246    | D-5    | D271    | C-6    | D367    | F-1    | R83     | B-5    | R101    | E-6    | C48     | F-6    | SW261   | E-3    |
| IC11                | F-5    | D247    | E-5    | D272    | C-6    | D368    | F-1    | R84     | D-4    | R102    | F-3    | C49     | E-5    | SW262   | F-3    |
| IC12                | F-6    | D248    | E-6    | D351    | E-3    | D369    | A-5    | R85     | C-4    | R103    | D-6    | SW230   | B-2    | SW263   | A-5    |
| IC13                | F-6    | D249    | E-6    | D352    | F-3    | D370    | B-4    | R86     | F-3    | R104    | E-6    | SW231   | B-2    | SW264   | D-5    |
| Q20                 | F-4    | D254    | G-2    | D353    | F-3    | D371    | A-4    | R87     | F-3    | R105    | E-6    | SW232   | C-2    | SW265   | E-3    |
| Q21                 | F-4    | D255    | F-2    | D354    | A-6    | D372    | D-5    | R88     | D-5    | R106    | F-5    | SW233   | D-2    | SW266   | F-3    |
| Q22                 | F-4    | D256    | F-2    | D355    | B-6    | D373    | E-5    | R89     | D-6    | R107    | F-5    | SW238   | B-3    | SW267   | F-3    |
| Q23                 | F-5    | D257    | F-2    | D356    | B-6    | D374    | E-5    | R90     | F-3    | R108    | F-5    | SW239   | B-3    | SW268   | A-6    |
| Q24                 | F-4    | D261    | E-2    | D357    | C-6    | D375    | E-6    | R91     | F-3    | R109    | F-5    | SW240   | C-3    | SW269   | B-6    |
| Q25                 | F-4    | D262    | F-2    | D358    | D-6    | D376    | E-6    | R92     | E-3    | R110    | F-5    | SW241   | D-3    | SW270   | B-6    |
| D230                | B-3    | D263    | A-5    | D359    | D-3    | D377    | E-6    | R93     | D-5    | R111    | F-5    | SW246   | E-5    | SW271   | C-6    |
| D231                | B-3    | D264    | E-5    | D360    | B-3    | CN10    | A-3    | R94     | F-4    | C40     | B-5    | SW247   | E-5    | SW272   | D-6    |
| D232                | C-3    | D265    | E-3    | D361    | B-3    | CN11    | C-2    | R95     | F-4    | C41     | C-4    | SW248   | D-6    | X10     | B-5    |
| D233                | D-3    | D266    | E-3    | D362    | C-3    | CN12    | C-4    | R96     | F-4    | C42     | B-5    | SW249   | E-6    |         |        |
| D238                | B-3    | D267    | F-3    | D363    | B-2    | VR10    | B-5    | R97     | F-5    | C43     | B-5    | SW254   | F-2    |         |        |
| D239                | C-3    | D268    | F-3    | D364    | B-2    | R80     | B-5    | R98     | F-4    | C45     | C-4    | SW255   | F-2    |         |        |
| D240                | C-3    | D269    | F-4    | D365    | C-2    | R81     | B-5    | R99     | F-4    | C46     | D-4    | SW256   | A-5    |         |        |
| D241                | E-3    | D270    | F-4    | D366    | D-2    | R82     | C-4    | R100    | E-6    | C47     | E-5    | SW257   | B-5    |         |        |

A | B | C | D | E | F | G

1

**J** JACK P.C.B.

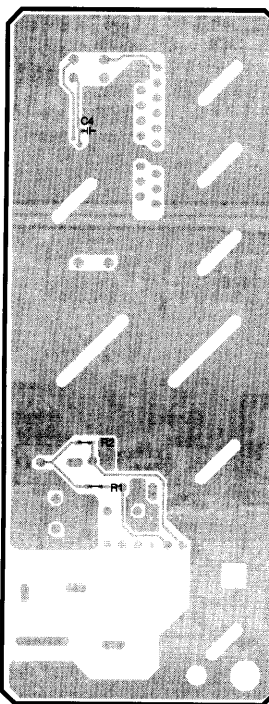
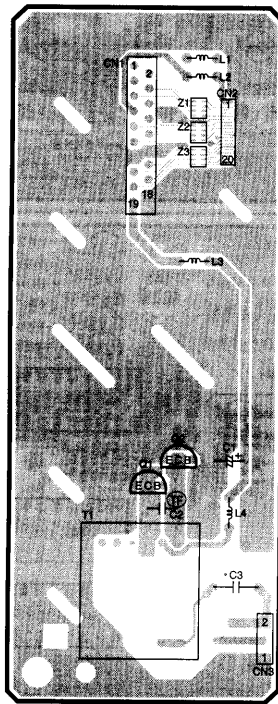
2



**K** INV P.C.B. (COMPONENT SIDE)

**K** INV P.C.B. (FOIL SIDE)

3



4

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8

ELECTRICAL PARTS LOCATION

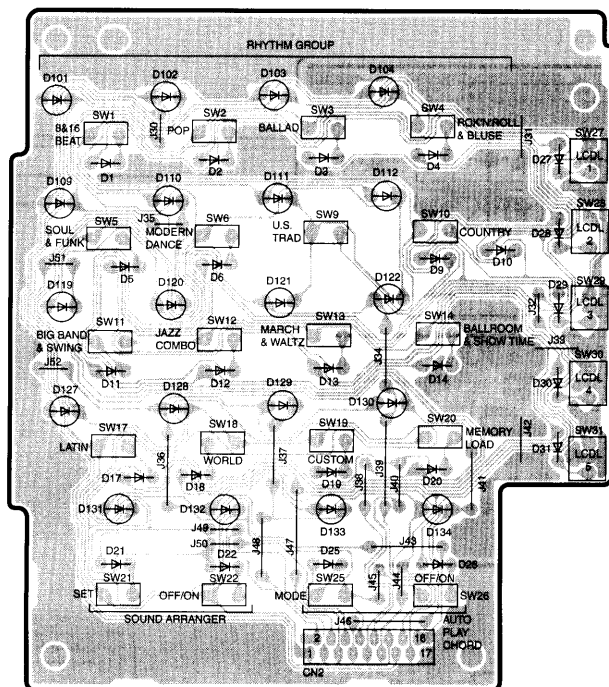
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| <b>J</b> JACK P.C.B. |        |         |        |         |        |
| D201                 | C-1    | JK202   | D-1    | R210    | B-1    |
| D202                 | C-1    | JK203   | C-1    | C201    | F-1    |
| L201                 | F-2    | JK204   | E-2    | C202    | D-1    |
| L202                 | F-2    | JK205   | B-1    | C203    | D-1    |
| L203                 | D-2    | R203    | D-1    | C204    | E-2    |
| L204                 | E-1    | R204    | D-1    | C205    | F-1    |
| L205                 | E-1    | R205    | E-1    | C206    | F-2    |
| L206                 | B-2    | R206    | E-1    | C207    | E-2    |
| CN201                | G-1    | R207    | E-1    | C210    | B-1    |
| CN202                | A-2    | R208    | E-1    | C211    | B-1    |
| JK201                | E-2    | R209    | C-1    | SW201   | F-2    |

ELECTRICAL PARTS LOCATION

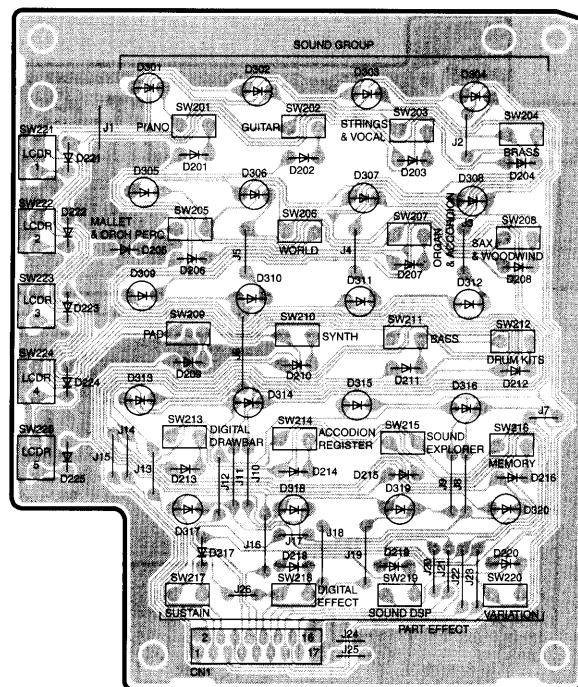
| Ref.No.             | Lo.No. | Ref.No. | Lo.No. |
|---------------------|--------|---------|--------|
| <b>K</b> INV P.C.B. |        |         |        |
| Q1                  | B-5    | CN2     | C-3    |
| Q2                  | C-5    | CN3     | C-6    |
| Z1                  | C-3    | R1      | D-5    |
| Z2                  | C-3    | R2      | D-5    |
| Z3                  | C-4    | C1      | C-5    |
| L1                  | C-3    | C2      | C-6    |
| L2                  | C-3    | C3      | C-6    |
| L3                  | C-4    | C4      | D-3    |
| L4                  | C-5    | T1      | B-6    |
| CN1                 | B-3    |         |        |

A B C D E F G

**L** LCDL P.C.B.



**M** LCDR P.C.B.

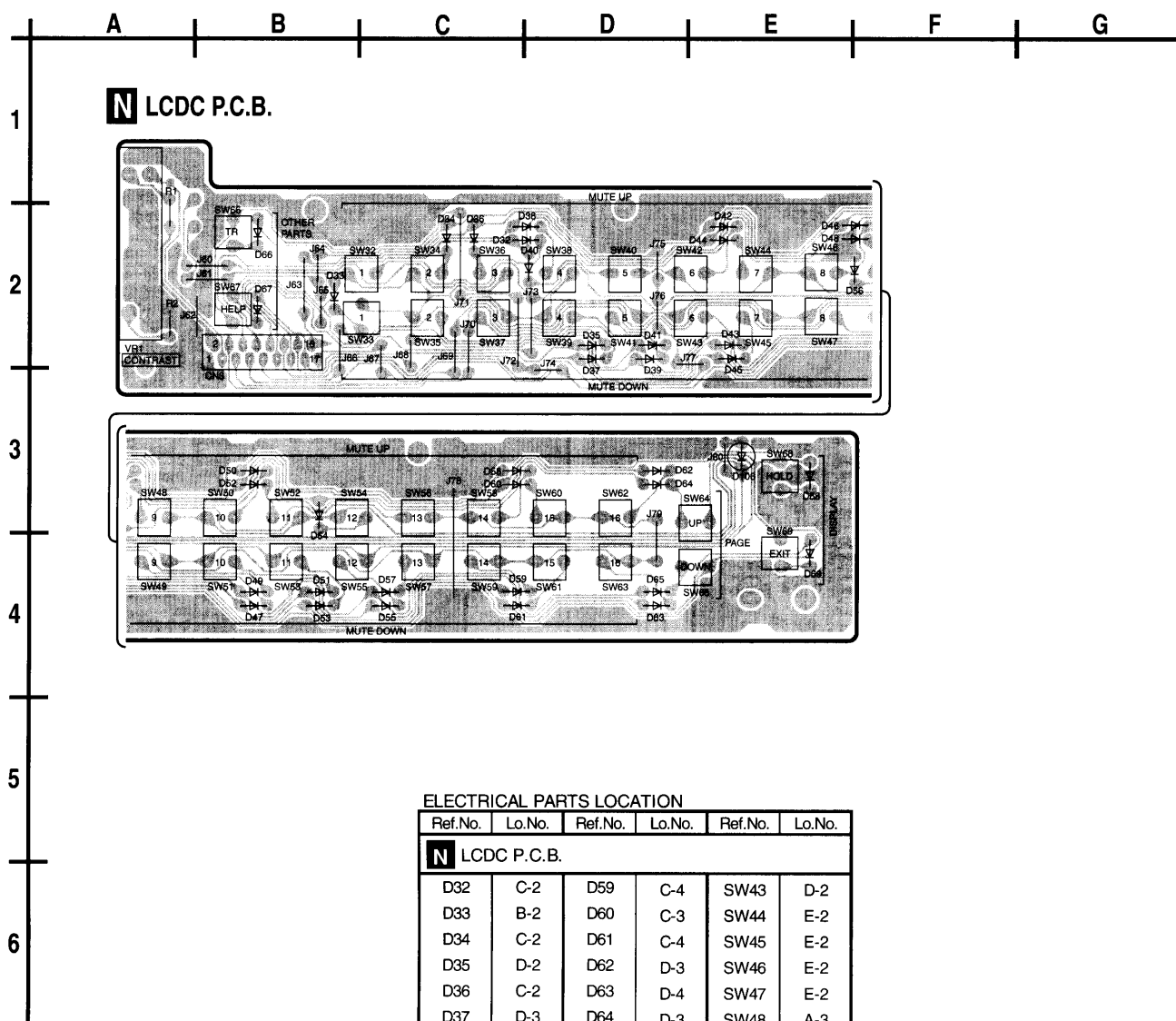


ELECTRICAL PARTS LOCATION

| Ref.No.              | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|----------------------|--------|---------|--------|---------|--------|
| <b>L</b> LCDL P.C.B. |        |         |        |         |        |
| D1                   | A-2    | D31     | D-4    | SW3     | C-2    |
| D2                   | B-2    | D101    | A-1    | SW4     | C-2    |
| D3                   | C-2    | D102    | B-1    | SW5     | A-2    |
| D4                   | C-2    | D103    | B-1    | SW6     | B-2    |
| D5                   | A-3    | D104    | C-1    | SW9     | C-2    |
| D6                   | B-3    | D109    | A-2    | SW10    | C-2    |
| D9                   | C-3    | D110    | B-2    | SW11    | A-3    |
| D10                  | D-2    | D111    | B-2    | SW12    | B-3    |
| D11                  | A-3    | D112    | C-2    | SW13    | C-3    |
| D12                  | B-3    | D119    | A-3    | SW14    | C-3    |
| D13                  | C-3    | D120    | B-3    | SW17    | A-3    |
| D14                  | C-3    | D121    | B-3    | SW18    | B-3    |
| D17                  | A-4    | D122    | C-3    | SW19    | C-3    |
| D18                  | B-4    | D127    | A-3    | SW20    | C-4    |
| D19                  | C-4    | D128    | B-3    | SW21    | A-4    |
| D20                  | C-4    | D129    | B-3    | SW22    | B-4    |
| D21                  | A-4    | D130    | C-3    | SW25    | C-4    |
| D22                  | B-4    | D131    | A-4    | SW26    | C-4    |
| D25                  | C-4    | D132    | B-4    | SW27    | D-2    |
| D26                  | C-4    | D133    | C-4    | SW28    | D-2    |
| D27                  | D-2    | D134    | C-4    | SW29    | D-3    |
| D28                  | D-2    | CN2     | B-5    | SW30    | D-3    |
| D29                  | D-3    | SW1     | A-2    | SW31    | D-3    |
| D30                  | D-3    | SW2     | B-2    |         |        |

ELECTRICAL PARTS LOCATION

| Ref.No.              | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|----------------------|--------|---------|--------|---------|--------|
| <b>M</b> LCDR P.C.B. |        |         |        |         |        |
| D201                 | E-2    | D225    | E-4    | SW203   | F-2    |
| D202                 | F-2    | D301    | E-1    | SW204   | G-2    |
| D203                 | F-2    | D302    | F-1    | SW205   | E-2    |
| D204                 | G-2    | D303    | F-1    | SW206   | F-2    |
| D205                 | E-2    | D304    | G-1    | SW207   | F-2    |
| D206                 | E-3    | D305    | E-2    | SW208   | G-2    |
| D207                 | F-3    | D306    | F-2    | SW209   | E-3    |
| D208                 | G-3    | D307    | F-2    | SW210   | F-3    |
| D209                 | E-3    | D308    | G-2    | SW211   | F-3    |
| D210                 | F-3    | D309    | E-3    | SW212   | G-3    |
| D211                 | F-3    | D310    | F-3    | SW213   | E-3    |
| D212                 | G-3    | D311    | F-3    | SW214   | F-3    |
| D213                 | E-4    | D312    | G-3    | SW215   | F-3    |
| D214                 | F-4    | D313    | E-3    | SW216   | G-3    |
| D215                 | F-4    | D314    | F-3    | SW217   | E-3    |
| D216                 | G-4    | D315    | F-3    | SW218   | F-4    |
| D217                 | E-4    | D316    | G-3    | SW219   | F-4    |
| D218                 | F-4    | D317    | E-4    | SW220   | G-4    |
| D219                 | F-4    | D318    | F-4    | SW221   | D-2    |
| D220                 | G-4    | D319    | F-4    | SW222   | D-2    |
| D221                 | E-2    | D320    | G-4    | SW223   | D-3    |
| D222                 | E-2    | CN1     | E-5    | SW224   | D-3    |
| D223                 | E-3    | SW201   | E-2    | SW225   | D-3    |
| D224                 | E-3    | SW202   | F-2    |         |        |

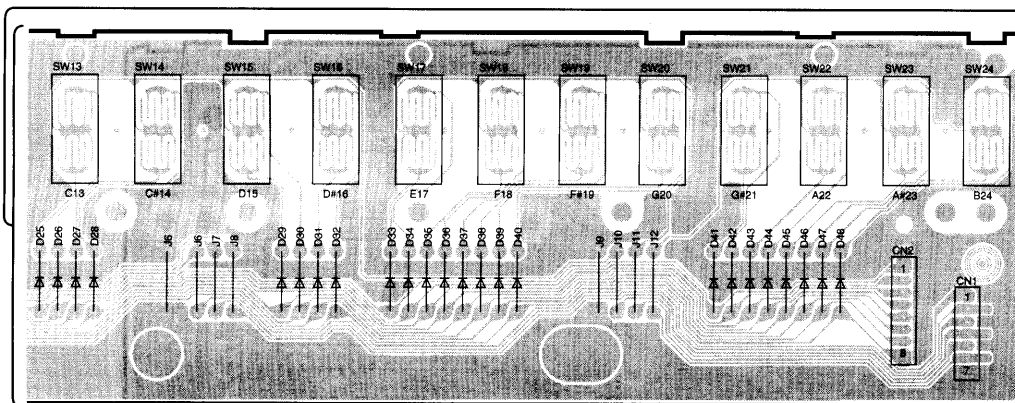
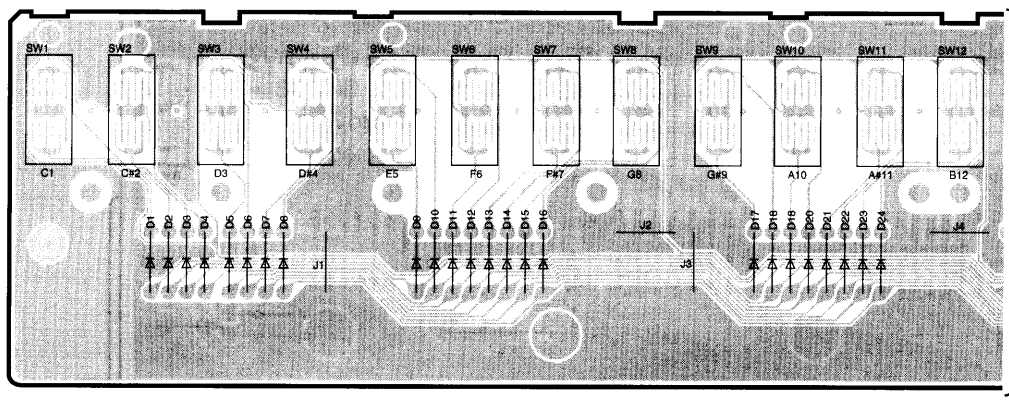


## ELECTRICAL PARTS LOCATION

| ELECTRICAL PARTS LOCATION |        |         |        |         |        |
|---------------------------|--------|---------|--------|---------|--------|
| Ref.No.                   | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
| <b>N</b> LCDC P.C.B.      |        |         |        |         |        |
| D32                       | C-2    | D59     | C-4    | SW43    | D-2    |
| D33                       | B-2    | D60     | C-3    | SW44    | E-2    |
| D34                       | C-2    | D61     | C-4    | SW45    | E-2    |
| D35                       | D-2    | D62     | D-3    | SW46    | E-2    |
| D36                       | C-2    | D63     | D-4    | SW47    | E-2    |
| D37                       | D-3    | D64     | D-3    | SW48    | A-3    |
| D38                       | D-2    | D65     | D-4    | SW49    | A-4    |
| D39                       | D-3    | D66     | B-2    | SW50    | B-3    |
| D40                       | D-2    | D67     | B-2    | SW51    | B-4    |
| D41                       | D-2    | D68     | E-3    | SW52    | B-3    |
| D42                       | E-2    | D69     | E-4    | SW53    | B-4    |
| D43                       | E-2    | D106    | E-3    | SW54    | B-3    |
| D44                       | E-2    | CN3     | B-3    | SW55    | B-4    |
| D45                       | E-3    | VR1     | A-2    | SW56    | C-3    |
| D46                       | E-2    | R1      | A-1    | SW57    | C-4    |
| D47                       | B-4    | R2      | A-2    | SW58    | C-3    |
| D48                       | E-2    | SW32    | B-2    | SW59    | C-4    |
| D49                       | B-4    | SW33    | B-2    | SW60    | D-3    |
| D50                       | B-3    | SW34    | C-2    | SW61    | D-4    |
| D51                       | B-4    | SW35    | C-2    | SW62    | D-3    |
| D52                       | B-3    | SW36    | C-2    | SW63    | D-4    |
| D53                       | B-4    | SW37    | C-2    | SW64    | E-3    |
| D54                       | B-4    | SW38    | D-2    | SW65    | E-4    |
| D55                       | C-4    | SW39    | D-2    | SW66    | B-2    |
| D56                       | F-2    | SW40    | D-2    | SW67    | B-2    |
| D57                       | C-4    | SW41    | D-2    | SW68    | E-3    |
| D58                       | C-3    | SW42    | D-2    | SW69    | E-4    |

A B C D E F G

**Q** MKB1 P.C.B.



**ELECTRICAL PARTS LOCATION**

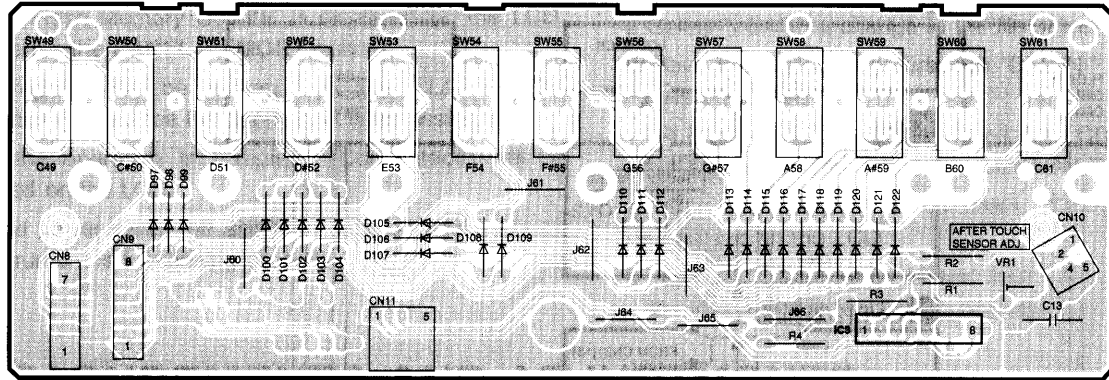
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|----------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>Q</b> MKB1 P.C.B. |        |         |        |         |        |         |        |         |        |         |        |
| D1                   | B-2    | D14     | D-2    | D27     | A-5    | D40     | D-5    | SW3     | B-1    | SW16    | C-4    |
| D2                   | B-2    | D15     | D-2    | D28     | A-5    | D41     | E-5    | SW4     | C-1    | SW17    | C-4    |
| D3                   | B-2    | D16     | D-2    | D29     | B-5    | D42     | E-5    | SW5     | C-1    | SW18    | C-4    |
| D4                   | B-2    | D17     | E-2    | D30     | B-5    | D43     | E-5    | SW6     | C-1    | SW19    | D-4    |
| D5                   | B-2    | D18     | E-2    | D31     | C-5    | D44     | E-5    | SW7     | D-1    | SW20    | D-4    |
| D6                   | B-2    | D19     | E-2    | D32     | C-5    | D45     | E-5    | SW8     | D-1    | SW21    | E-4    |
| D7                   | B-2    | D20     | E-2    | D33     | C-5    | D46     | E-5    | SW9     | E-1    | SW22    | E-4    |
| D8                   | B-2    | D21     | E-2    | D34     | C-5    | D47     | E-5    | SW10    | E-1    | SW23    | F-4    |
| D9                   | C-2    | D22     | F-2    | D35     | C-5    | D48     | E-5    | SW11    | F-1    | SW24    | F-4    |
| D10                  | C-2    | D23     | F-2    | D36     | C-5    | CN1     | F-5    | SW12    | F-1    |         |        |
| D11                  | C-2    | D24     | F-2    | D37     | C-5    | CN2     | F-5    | SW13    | A-4    |         |        |
| D12                  | C-2    | D25     | A-5    | D38     | C-5    | SW1     | A-1    | SW14    | B-4    |         |        |
| D13                  | D-2    | D26     | A-5    | D39     | C-5    | SW2     | B-1    | SW15    | B-4    |         |        |

**R** MKB2 P.C.B.

| Ref.No.                                                                                                         | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|-----------------------------------------------------------------------------------------------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>R</b> MKB2 P.C.B.         </div> |        |         |        |         |        |         |        |         |        |         |        |
| IC1                                                                                                             | D-2    | D63     | D-2    | D79     | B-5    | D95     | D-5    | C10     | E-3    | SW38    | B-4    |
| IC2                                                                                                             | E-5    | D64     | D-2    | D80     | B-5    | D96     | E-5    | C11     | E-3    | SW39    | B-4    |
| D49                                                                                                             | B-2    | D65     | F-2    | D81     | C-5    | CN3     | E-5    | C12     | B-2    | SW40    | C-4    |
| D50                                                                                                             | B-2    | D66     | F-2    | D82     | C-5    | CN4     | A-2    | SW25    | A-1    | SW41    | C-4    |
| D51                                                                                                             | B-2    | D67     | F-2    | D83     | C-5    | CN5     | F-5    | SW26    | B-1    | SW42    | D-4    |
| D52                                                                                                             | B-2    | D68     | F-2    | D84     | C-5    | CN6     | F-5    | SW27    | B-1    | SW43    | D-4    |
| D53                                                                                                             | B-2    | D69     | F-2    | D85     | C-5    | CN7     | B-2    | SW28    | C-1    | SW44    | E-4    |
| D54                                                                                                             | B-2    | D70     | F-2    | D86     | C-5    | C1      | E-5    | SW29    | C-1    | SW45    | E-4    |
| D55                                                                                                             | B-2    | D71     | F-2    | D87     | C-5    | C2      | D-5    | SW30    | C-1    | SW46    | E-4    |
| D56                                                                                                             | B-2    | D72     | A-5    | D88     | D-5    | C3      | E-3    | SW31    | D-1    | SW47    | F-4    |
| D57                                                                                                             | C-2    | D73     | B-5    | D89     | D-5    | C4      | E-5    | SW32    | D-1    | SW48    | F-4    |
| D58                                                                                                             | C-2    | D74     | B-5    | D90     | D-5    | C5      | D-5    | SW33    | E-1    |         |        |
| D59                                                                                                             | C-2    | D75     | B-5    | D91     | D-5    | C6      | D-5    | SW34    | E-1    |         |        |
| D60                                                                                                             | C-2    | D76     | B-5    | D92     | D-5    | C7      | C-5    | SW35    | F-1    |         |        |
| D61                                                                                                             | C-2    | D77     | B-5    | D93     | D-5    | C8      | F-3    | SW36    | F-1    |         |        |
| D62                                                                                                             | D-2    | D78     | B-5    | D94     | D-5    | C9      | C-2    | SW37    | A-4    |         |        |

A B C D E F G

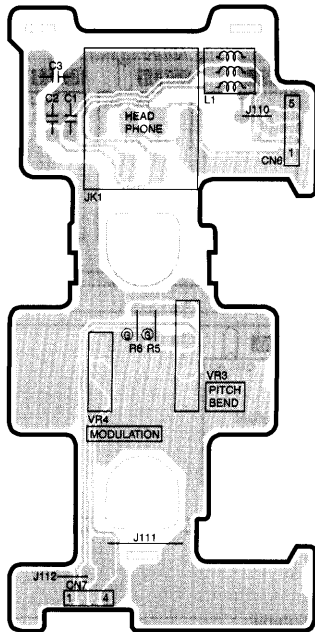
**S** MKB3 P.C.B.



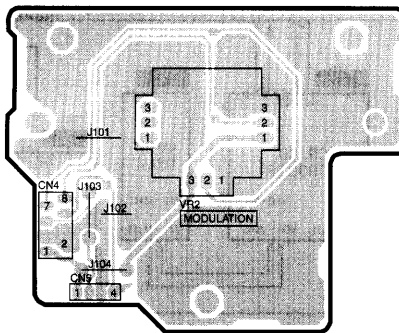
ELECTRICAL PARTS LOCATION

| Ref.No.              | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. | Ref.No. | Lo.No. |
|----------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| <b>S</b> MKB3 P.C.B. |        |         |        |         |        |         |        |         |        |         |        |         |        |         |        |
| IC3                  | F-3    | D103    | C-2    | D110    | D-2    | D117    | E-2    | CN9     | B-2    | R4      | E-3    | SW54    | C-1    | SW61    | G-1    |
| D97                  | B-2    | D104    | C-2    | D111    | D-2    | D118    | E-2    | CN10    | G-2    | C13     | G-3    | SW55    | D-1    |         |        |
| D98                  | B-2    | D105    | C-2    | D112    | E-2    | D119    | F-2    | CN11    | C-3    | SW49    | A-1    | SW56    | D-1    |         |        |
| D99                  | B-2    | D106    | C-2    | D113    | E-2    | D120    | F-2    | VR1     | G-3    | SW50    | B-1    | SW57    | E-1    |         |        |
| D100                 | B-2    | D107    | C-2    | D114    | E-2    | D121    | F-2    | R1      | F-3    | SW51    | B-1    | SW58    | E-1    |         |        |
| D101                 | C-2    | D108    | D-2    | D115    | E-2    | D122    | F-2    | R2      | F-2    | SW52    | C-1    | SW59    | F-1    |         |        |
| D102                 | C-2    | D109    | D-2    | D116    | E-2    | CN8     | A-3    | R3      | F-3    | SW53    | C-1    | SW60    | F-1    |         |        |

**O** HB P.C.B.

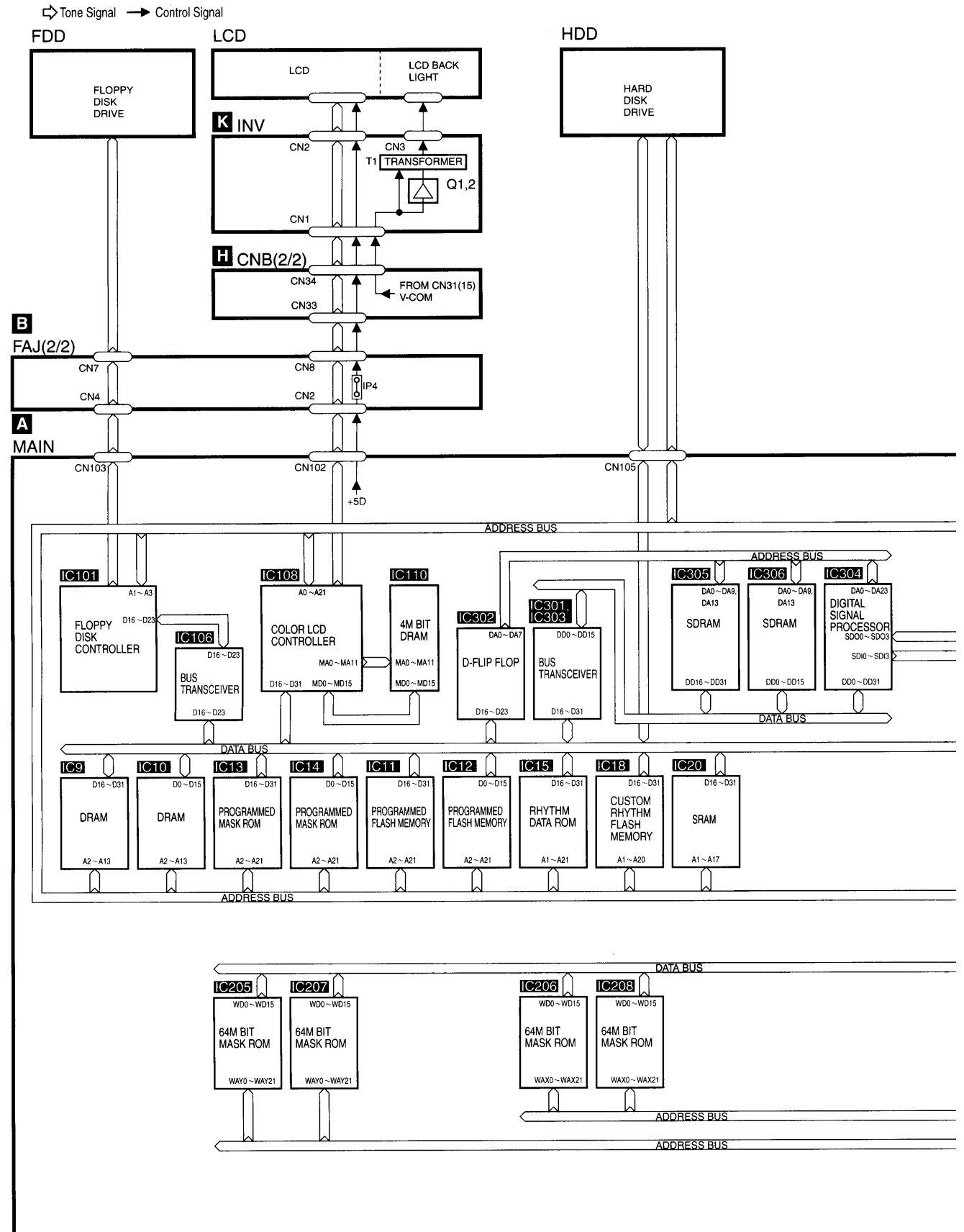


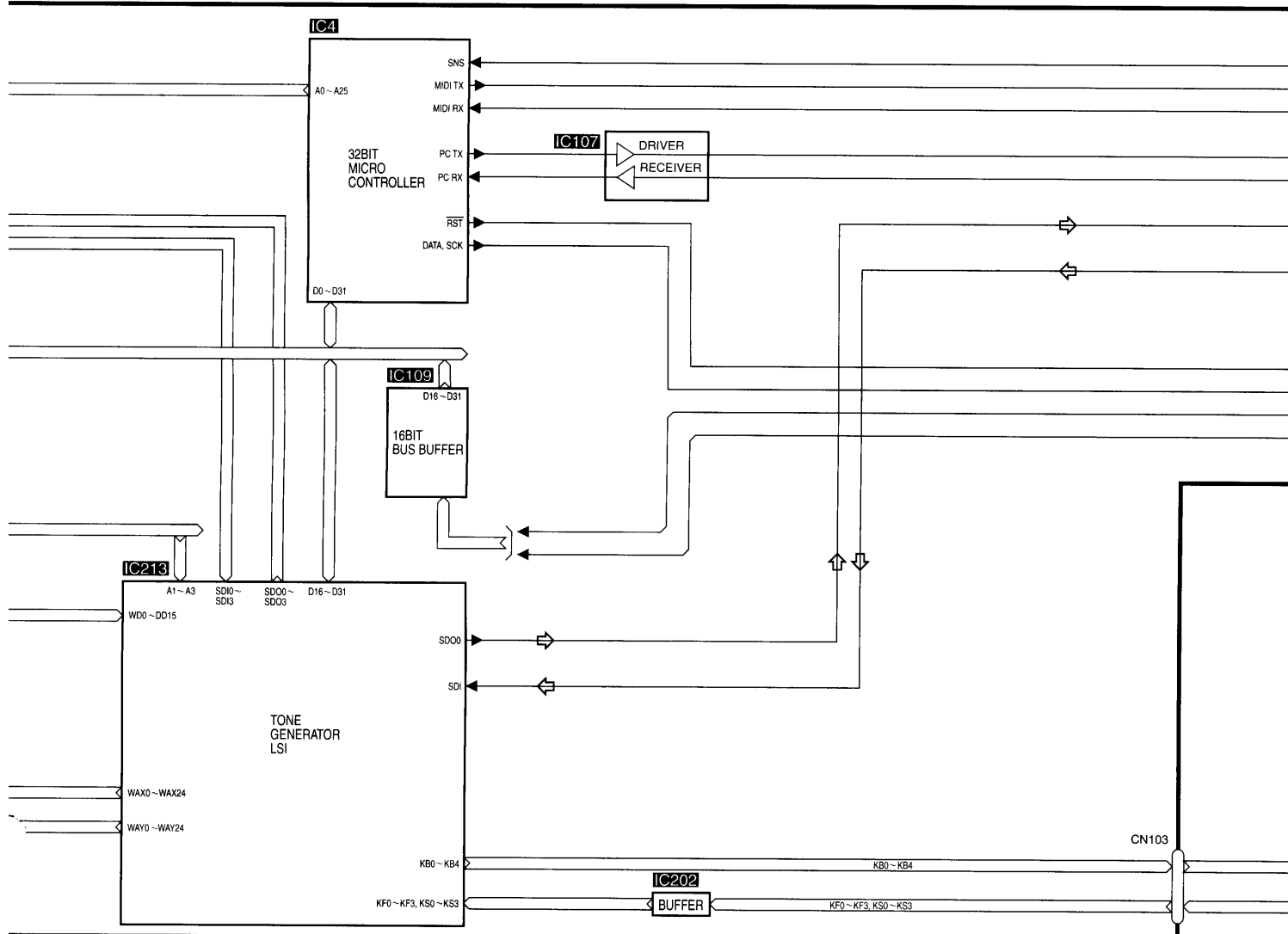
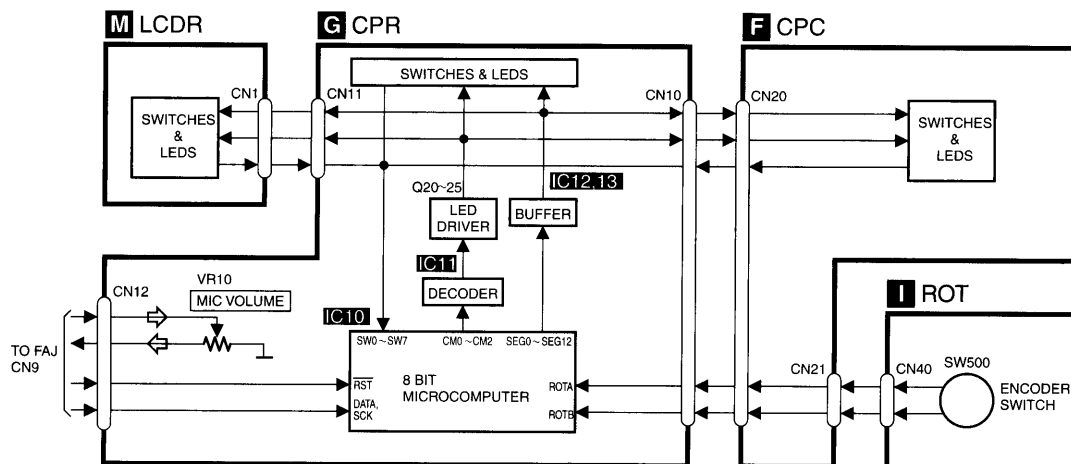
**P** MB P.C.B.

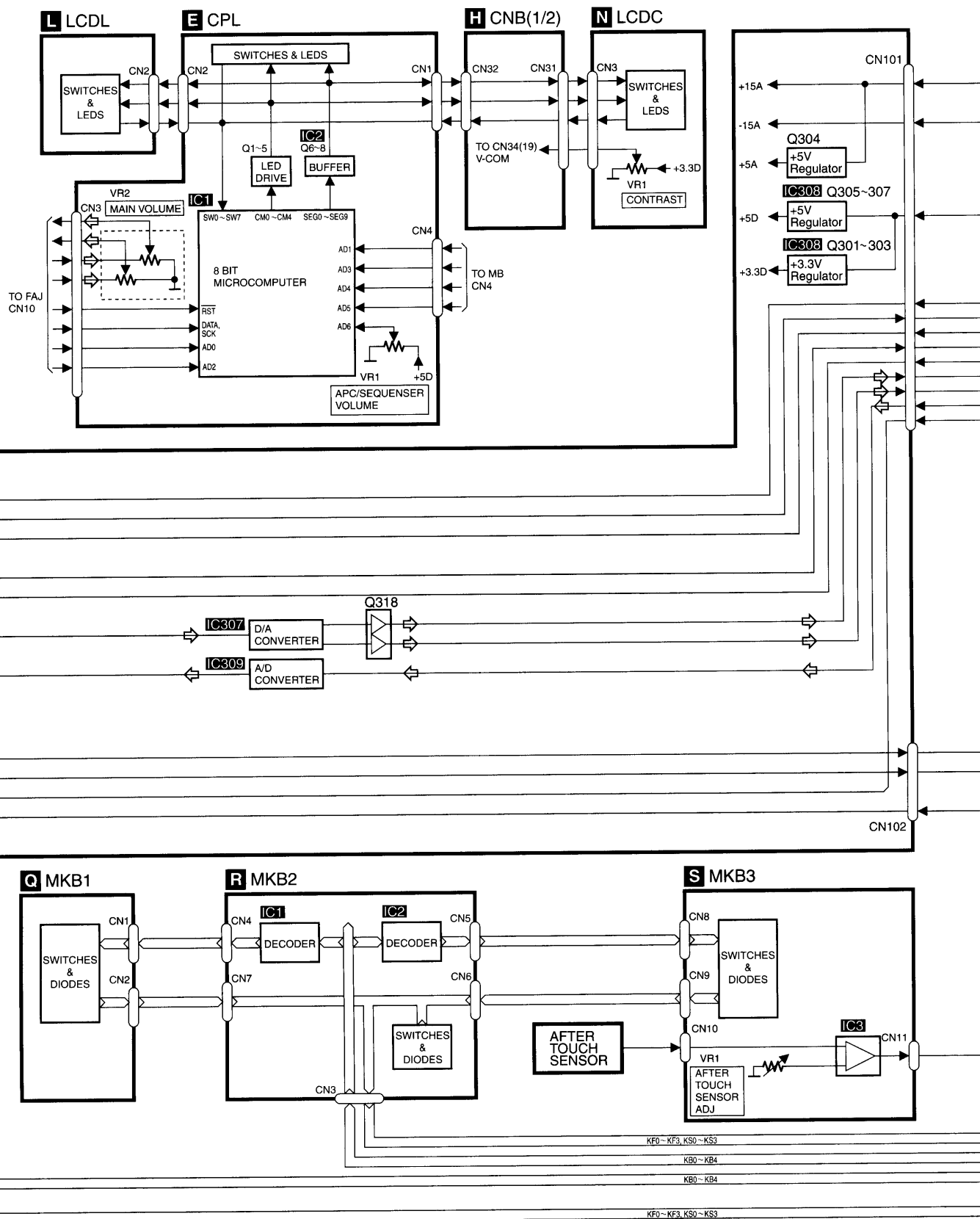


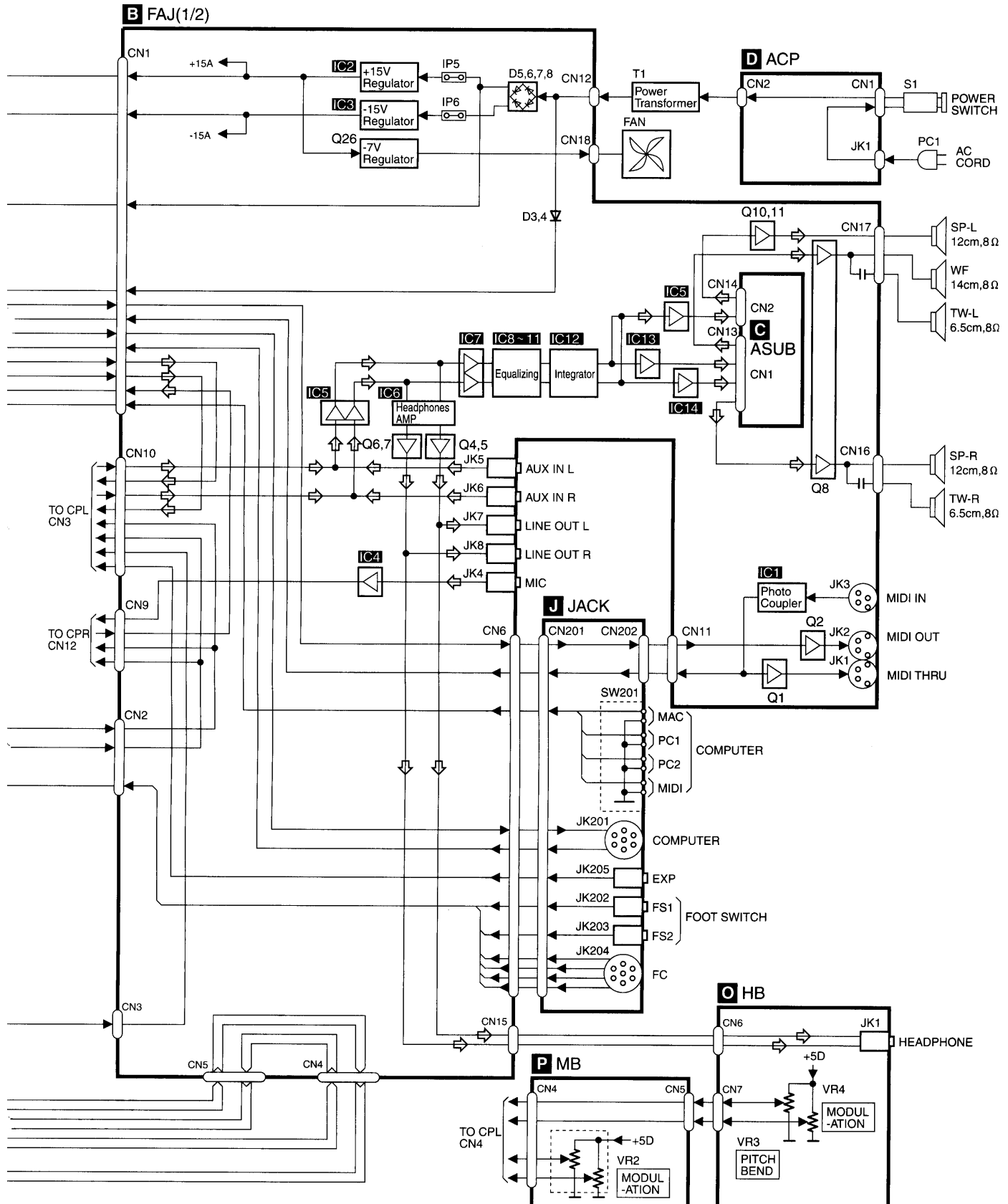
# 13 Block Diagram

## Block Diagram

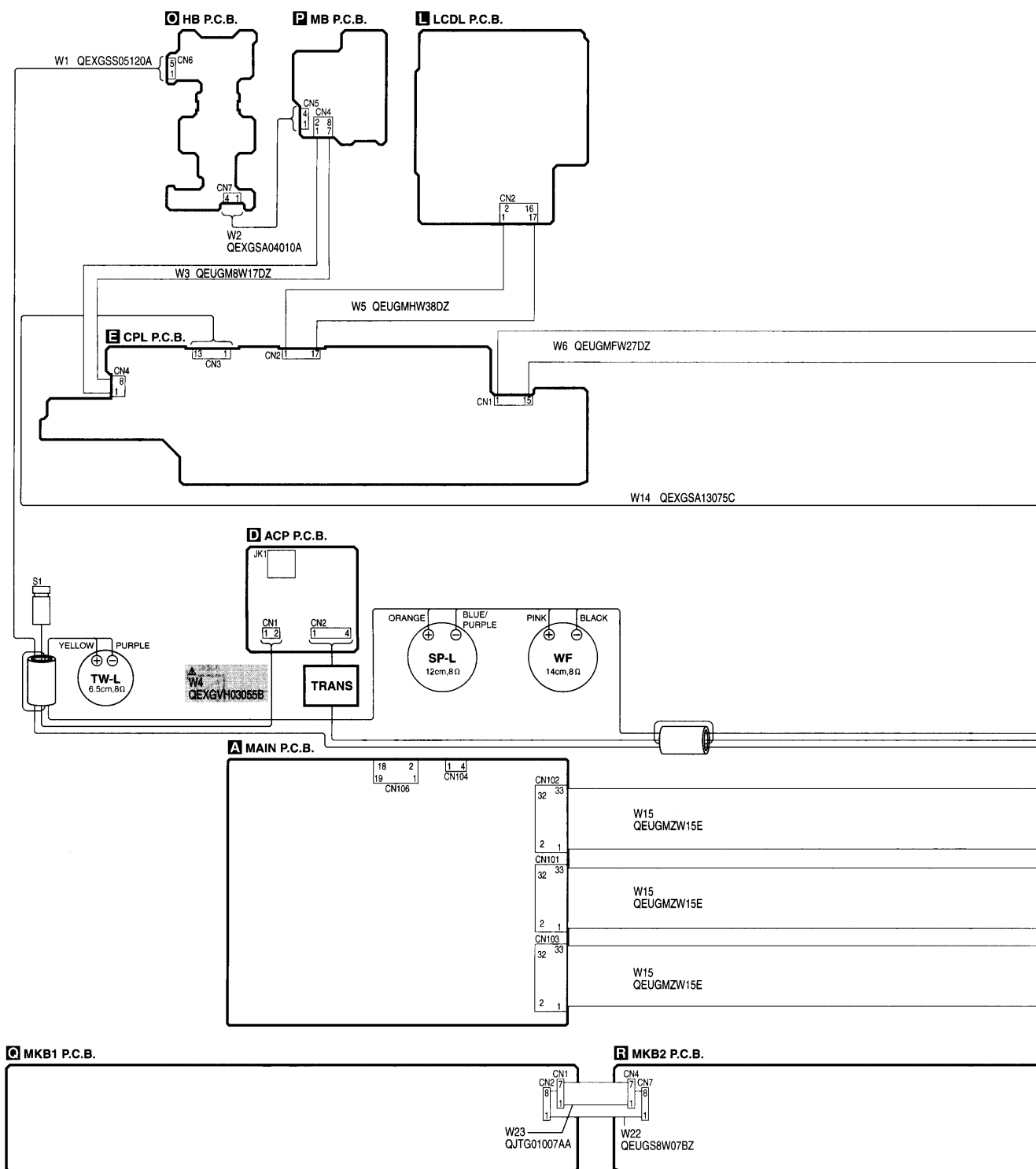


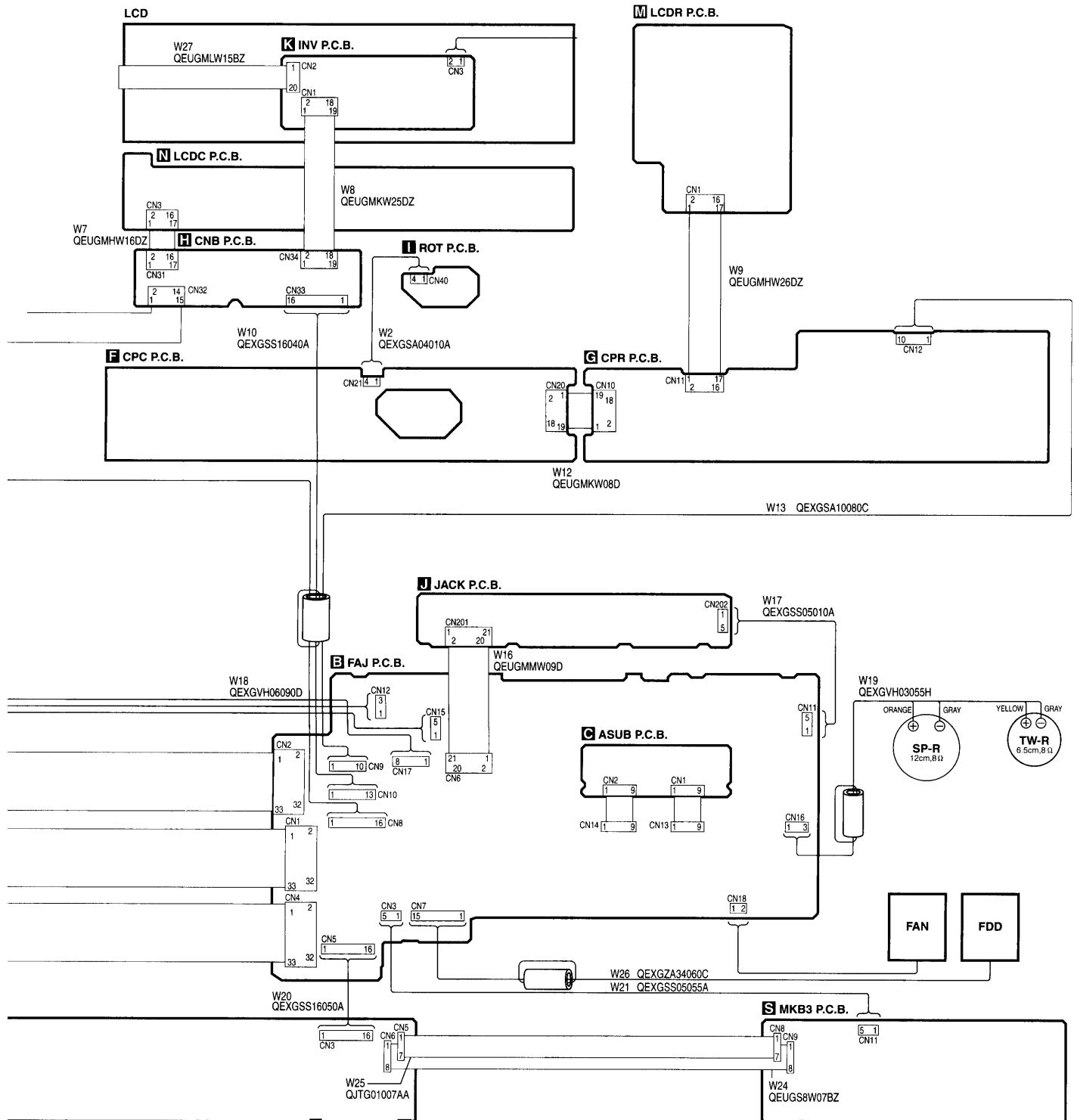






# 14 Wiring Connection Diagram





# 15 Replacement Parts List

## Notes:

\*Important safety notice:

Components identified by  $\Delta$  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

\*Warning: This product uses a laser diode. Refer to caution statements.

\*ACHTUNG:Die lasereinheit nicht zerlegen.Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

\*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)

\*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000K (OHM)

\*The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

\*"<IA>"- "<IH>", marks in Remarks indicate languages of instruction manuals. <IA> : Dansk, <IB> : English, <IC> : English, <ID> : French, <IE> : Germany, <IF> : Italiano, <IG> : Espanol, <IH> : Nerderlands]

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| 1        | QYPG1095AB   | CONTROL PANEL ASS'Y     | 1   |         |
| 2        | QGP0143AB    | LCD PANEL               | 1   |         |
| 3        | QKSGK021AB   | LCD CASE                | 1   |         |
| 4        | QSLG025AA    | LCD                     | 1   |         |
| 5        | XYE3+FG12    | SCREW                   | 3   |         |
| 6        | XTV3+12G     | SCREW                   | 1   |         |
| 7        | XTW3+10QFZ   | SCREW                   | 2   |         |
| 10       | QGUG1480AA   | BUTTON                  | 1   |         |
| 11       | QGUG1480BA   | BUTTON                  | 1   |         |
| 12       | QGUG1481AA   | BUTTON                  | 2   |         |
| 13       | QGUG1482AA   | BUTTON                  | 2   |         |
| 14       | QGUG1483AA   | BUTTON                  | 6   |         |
| 15       | QGUG1484AA   | BUTTON                  | 2   |         |
| 16       | QMFG4246AA   | CUSHION                 | 2   |         |
| 17       | QMFG4247AA   | CUSHION                 | 1   |         |
| 18       | QMFG4248AA   | CUSHION                 | 1   |         |
| 19       | QMFG4249AA   | CUSHION                 | 1   |         |
| 20       | QMRG7107AA   | SHAFT HOLDER            | 2   |         |
| 21       | QMRG7109AA   | LOCK ARM R              | 1   |         |
| 22       | QMRG7110AA   | LOCK ARM R              | 1   |         |
| 23       | QMRG7111AA   | LOCK LEVER              | 1   |         |
| 24       | QMGG063AA    | CUSHION                 | 2   |         |
| 25       | XTW3+10Q     | SCREW                   | 10  |         |
| 26       | XTN23+10C    | SCREW                   | 4   |         |
| 27       | XTW3+12QFZ   | SCREW                   | 9   |         |
| 28       | QMRG5215AA   | CUSHION                 | 2   |         |
| 29       | QMRG5216AA   | CUSHION                 | 2   |         |
| 30       | QKWG036AA    | LCD WINDOW              | 1   |         |
| 31       | QMFG4252AA   | CUSHION                 | 2   |         |
| 32       | QMRG7106AA   | SHAFT                   | 2   |         |
| 33       | EASJ14PL11A3 | SPEAKER, 14cm           | 1   |         |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                                 |
|----------|--------------|-------------------------|-----|-----------------------------------------|
| 34       | EAS12P458JB3 | SPEAKER, 12cm           | 2   |                                         |
| 35       | EAS65PH31D3  | SPEAKER, 6.5cm          | 2   |                                         |
| 36       | QGUG1472AA   | BUTTON                  | 1   |                                         |
| 37       | QGUG1472BA   | BUTTON                  | 2   |                                         |
| 38       | QGUG1472BB   | BUTTON                  | 1   |                                         |
| 39       | QGUG1472CA   | BUTTON                  | 4   |                                         |
| 40       | QGUG1473AA   | BUTTON                  | 1   |                                         |
| 41       | QGUG1485AA   | BUTTON                  | 1   |                                         |
| 42       | QGUG1473BA   | BUTTON                  | 1   |                                         |
| 43       | QGUG1473CA   | BUTTON                  | 1   |                                         |
| 44       | QGUG1474AA   | BUTTON                  | 1   |                                         |
| 45       | QGUG1475AA   | BUTTON                  | 2   |                                         |
| 46       | QGUG1476AA   | BUTTON                  | 1   |                                         |
| 47       | QGUG1477AA   | BUTTON                  | 3   |                                         |
| 48       | QGUG1478AA   | BUTTON                  | 1   |                                         |
| 49       | QGUG1479AA   | BUTTON                  | 2   |                                         |
| 50       | QGUG1440AC1K | BUTTON                  | 1   |                                         |
| 51       | QGUG3002BB   | DIAL WHEEL              | 1   |                                         |
| 52       | SBNG7070B    | KNOB                    | 2   |                                         |
| 53       | QGUG1040AA   | BUTTON, POWER           | 1   |                                         |
| 54       | QGUG3008AA   | MODULATION BALL         | 1   |                                         |
| 55       | REM0072      | FAN                     | 1   |                                         |
| 56       | XTB4+30C     | SCREW                   | 2   |                                         |
| 57       | QMGG029AA    | FLOATING RUBBER         | 4   |                                         |
| 61       | QMRG5159AA   | CUSHION                 | 4   |                                         |
| 62       | QMRG5160AA   | CUSHION                 | 8   |                                         |
| 65       | SHGG3130A    | FOOT                    | 4   |                                         |
| 67       | SBNG4050AK   | BENDER WHEEL            | 2   |                                         |
| 68       | SUSG570A     | SPRING                  | 1   |                                         |
| 69       | SHGG5010A    | TUBE                    | 2   |                                         |
| 70       | QMFG4076AA   | CUSHION                 | 2   |                                         |
| 71       | XNS12FZ      | NUT                     | 1   |                                         |
| 72       | XTW3+10T     | SCREW                   | 1   |                                         |
| 73       | QSPG1010AA   | SW, POWER               | 1   |                                         |
| 75       | QMFG4080AA   | CUSHION                 | 13  |                                         |
| 76       | QMFG4107AA   | CUSHION                 | 4   |                                         |
| 77       | XNS12FZ      | NUT                     | 8   |                                         |
| 79       | XTW3+10TFZ   | SCREW                   | 3   |                                         |
| 80       | XTW3+10T     | SCREW                   | 3   |                                         |
| 81       | XYN3+J8FZ    | SCREW                   | 2   |                                         |
| 82       | XYN3+C8FZ    | SCREW                   | 1   |                                         |
| 83       | QTPG1M056A   | POWER TRANSFORMER       | 1   | $\Delta$ M, MC, XM                      |
| 83       | QTPG1M057A   | POWER TRANSFORMER       | 1   | $\Delta$ X, XS, XD, XT, XA              |
| 83       | QTPG1M058A   | POWER TRANSFORMER       | 1   | $\Delta$ EN, EZ, EK, EW, EF, EA, EP, EH |
| 83       | QTPG1M058A   | POWER TRANSFORMER       | 1   | $\Delta$ XL, XR, XP, XW                 |
| 84       | QMRG1020AA   | SPACER                  | 4   | EN, EZ, EK, EW, EF, EA, EP, EH          |
| 84       | QMRG1020AA   | SPACER                  | 4   | XL, XR, XP, XW                          |
| 85       | QAUG025AA    | FDD                     | 1   |                                         |
| 86       | XYN3+F6FZ    | SCREW                   | 4   |                                         |
| 87       | QMGG029AA    | FLOATING RUBBER         | 4   |                                         |
| 88       | QMFG4094AA   | CUSHION                 | 2   |                                         |
| 104      | XTW3+20Q     | SCREW                   | 2   |                                         |
| 105      | QHDG025AA    | SCREW                   | 1   |                                         |
| 106      | QHDG050AA    | SCREW                   | 8   |                                         |
| 107      | XYE3+FG12    | SCREW                   | 11  |                                         |
| 108      | XTW3+10QFZ   | SCREW                   | 2   |                                         |
| 109      | XTW3+12Q     | SCREW                   | 38  |                                         |
| 110      | XTW3+16JFZ   | SCREW                   | 14  |                                         |
| 111      | XTV3+10G     | SCREW                   | 44  |                                         |
| 112      | XTB3+12GFZ   | SCREW                   | 2   |                                         |
| 113      | XTT4+16GFZ   | SCREW                   | 6   |                                         |
| 114      | XYN4+F20     | SCREW                   | 1   | M, MC, XM, XS, XD, XT, XA, X            |
| 114      | XYN4+F25     | SCREW                   | 4   | EN, EZ, EK, EW, EF, EA, EP, EH          |
| 114      | XYN4+F25     | SCREW                   | 4   | XL, XR, XP, XW                          |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                        |
|----------|--------------|-------------------------|-----|--------------------------------|
| 115      | QNGKN6000AA  | NAME PLATE              | 1   | XL, XR                         |
| 115      | QNGKN6000CA  | NAME PLATE              | 1   | MC                             |
| 115      | QNGKN6000EA  | NAME PLATE              | 1   | EN, EZ, EK, EW, EF, EA, EP, EH |
| 115      | QNGKN6000EA  | NAME PLATE              | 1   | XW                             |
| 115      | QNGKN6000LA  | NAME PLATE              | 1   | XP                             |
| 115      | QNGKN6000MA  | NAME PLATE              | 1   | M, XM                          |
| 115      | QNGKN6000SA  | NAME PLATE              | 1   | X, XS, XD, XT, XA              |
| 116      | QJAG025AA    | POWER CORD              | 1   | △ M, MC, XM                    |
| 116      | QJAG027AA    | POWER CORD              | 1   | △ EN, EZ, EW, EF, EA, EP, EH   |
| 116      | QJAG027AA    | POWER CORD              | 1   | △ X, XS, XT, XP, XW            |
| 116      | QJAG028AA    | POWER CORD              | 1   | △ EK, XD                       |
| 116      | QJAG029AA    | POWER CORD              | 1   | △ XL, XR                       |
| 116      | QJAG031AA    | POWER CORD              | 1   | △ XA                           |
| 117      | QAQ040AA     | FLOPPY DISK             | 1   |                                |
| 118      | QYAG3009AA   | MUSIC STAND ASS'Y       | 1   |                                |
| 127      | QPGG0455AA   | PACKING CASE            | 1   |                                |
| 130      | QQFGKN6000AA | INSTRUCTION MANUAL      | 1   | EN                             |
| 130-1    | QQTG0520A    | INSTRUCTION MANUAL      | 1   | <IA>                           |
| 130-2    | QQTG0522A    | INSTRUCTION MANUAL      | 1   | <IB>                           |
| 131      | QQFGKN6000BA | INSTRUCTION MANUAL      | 1   | M, <IC>                        |
| 132      | QQFGKN6000CA | INSTRUCTION MANUAL      | 1   | MC                             |
| 132-1    | QQTG0522A    | INSTRUCTION MANUAL      | 1   | <IB>                           |
| 132-2    | QQTG0524A    | INSTRUCTION MANUAL      | 1   | <ID>                           |
| 133      | QQFGKN6000DA | INSTRUCTION MANUAL      | 1   | EZ, <IE>                       |
| 134      | QQFGKN6000EA | INSTRUCTION MANUAL      | 1   | EK, XL, XR, XS, XD, XT, XW<IB> |
| 135      | QQFGKN6000FA | INSTRUCTION MANUAL      | 1   | EW                             |
| 135-1    | QQTG0524A    | INSTRUCTION MANUAL      | 1   | <ID>                           |
| 135-2    | QQTG0523A    | INSTRUCTION MANUAL      | 1   | <IE>                           |
| 135-3    | QQTG0526A    | INSTRUCTION MANUAL      | 1   | <IF>                           |
| 136      | QQFGKN6000GA | INSTRUCTION MANUAL      | 1   | EF                             |
| 136-1    | QQTG0524A    | INSTRUCTION MANUAL      | 1   | <ID>                           |
| 136-2    | QQTG0526A    | INSTRUCTION MANUAL      | 1   | <IF>                           |
| 137      | QQFGKN6000HA | INSTRUCTION MANUAL      | 1   | EA, <IE>                       |
| 138      | QQFGKN6000JA | INSTRUCTION MANUAL      | 1   | EP, XM, X, XP, XA              |
| 138-1    | QQTG0522A    | INSTRUCTION MANUAL      | 1   | <IB>                           |
| 138-2    | QQTG0527A    | INSTRUCTION MANUAL      | 1   | <IG>                           |
| 139      | QQFGKN6000KA | INSTRUCTION MANUAL      | 1   | EH                             |
| 139-1    | QQTG0525A    | INSTRUCTION MANUAL      | 1   | <IH>                           |
| 139-2    | QQTG0524A    | INSTRUCTION MANUAL      | 1   | <ID>                           |
| 139-3    | QQTG0523A    | INSTRUCTION MANUAL      | 1   | <IE>                           |
| 150      | SJP5213-2    | ATTACHMENT PLUG         | 1   | △ X, XT, XP                    |
| 151      | QMAG0258AA   | COVER                   | 1   | X, XS, XD, XT, XA              |
| 161      | STBG1101AK   | WHITE KEY (C, F)        | 10  |                                |
| 162      | STBG1111AK   | WHITE KEY (D)           | 5   |                                |
| 163      | STBG1121AK   | WHITE KEY (E, B)        | 10  |                                |
| 164      | STBG1131AK   | WHITE KEY (G)           | 5   |                                |
| 165      | STBG1141AK   | WHITE KEY (A)           | 5   |                                |
| 166      | STBG1151AK   | WHITE KEY (CC)          | 1   |                                |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                           |
|----------|--------------|-------------------------|-----|-----------------------------------|
| 167      | STBG2071AK   | BLACK KEY               | 25  |                                   |
| 168      | QMWG6009BAK  | 13KEYS RUBBER SWITCH    | 1   |                                   |
| 169      | QMWG6010BAK  | 13KEYS RUBBER SWITCH    | 4   |                                   |
| 170      | QMG4176AAK   | CUSHION                 | 1   |                                   |
| 171      | QMRG2074AAK  | CUSHION                 | 1   |                                   |
| 172      | QMWG5003BA   | AFTER TOUCH SENSOR      | 1   |                                   |
| 174      | XTW3+10T     | SCREW                   | 37  |                                   |
| 185      | SHGG9052A    | KEY GUIDE RUBBER        | 61  |                                   |
| 186      | QMG1120CA    | FELT                    | 1   |                                   |
| PCB1     | SXPG232011   | MAIN P.C.B              | 1   | EN, EZ, EK, EW, EF, EA, EP, EH    |
| PCB1     | SXPG232011   | MAIN P.C.B              | 1   | X, XM, XL, XR, XS, XD, XT, XP, XW |
| PCB1     | SXPG232011   | MAIN P.C.B              | 1   | XA                                |
| PCB1     | SXPG232021   | MAIN P.C.B              | 1   | M, MC                             |
| PCB2     | SXPG232111A  | CPL P.C.B               | 1   |                                   |
| PCB2     | SXPG232111B  | CPC P.C.B               | 1   |                                   |
| PCB3     | SXPG232111C  | CPR P.C.B               | 1   |                                   |
| PCB4     | SXPG232111D  | CNB P.C.B               | 1   |                                   |
| PCB5     | SXPG232111E  | ROT P.C.B               | 1   |                                   |
| PCB6     | SXPG232211A  | FAJ P.C.B               | 1   | EN, EZ, EK, EW, EF, EA, EP, EH    |
| PCB6     | SXPG232221A  | FAJ P.C.B               | 1   | M, MC, XM                         |
| PCB6     | SXPG232211A  | FAJ P.C.B               | 1   | X, XL, XR, XS, XD, XT, XP, XW, XA |
| PCB7     | SXPG232211B  | JACK P.C.B              | 1   |                                   |
| PCB8     | SXPG232311A  | ASUB P.C.B              | 1   |                                   |
| PCB9     | SXPG232311B  | INV P.C.B               | 1   |                                   |
| PCB10    | SXPG232411A  | MKB1 P.C.B              | 1   |                                   |
| PCB11    | SXPG232411B  | MKB2 P.C.B              | 1   |                                   |
| PCB12    | SXPG232511   | MKB3 P.C.B              | 1   |                                   |
| PCB13    | SXPG232811A  | LCDL P.C.B              | 1   |                                   |
| PCB14    | SXPG232811B  | LCDR P.C.B              | 1   |                                   |
| PCB15    | SXPG232811C  | LCDC P.C.B              | 1   |                                   |
| PCB16    | SXPG232811D  | HB P.C.B                | 1   |                                   |
| PCB17    | SXPG232811E  | MB P.C.B                | 1   |                                   |
| PCB18    | SXPG232911   | ACP P.C.B               | 1   | EN, EZ, EK, EW, EF, EA, EP, EH    |
| PCB18    | SXPG232911   | ACP P.C.B               | 1   | XL, XR, XP, XW                    |
| PCB18    | SXPG232921   | ACP P.C.B               | 1   | M, MC, XM                         |
| PCB18    | SXPG232931   | ACP P.C.B               | 1   | X, XS, XD, XT, XA                 |
| C1       | ECEA0JKA221  | 220UF, 6.3V             | 1   | INV                               |
| C1       | ECEA0JKA470  | 47UF, 6.3V              | 1   | MKB2                              |
| C1       | ECKCVA1472MF | 4700PF                  | 1   | △ ACP                             |
| C1       | ECQB1H333JF  | 0.033UF                 | 1   | HB                                |
| C1       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN                              |
| C1       | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ                               |
| C1       | QCBG1H104ZFA | 0.1UF                   | 1   | CPL                               |
| C2       | ECQB1H333JF  | 0.033UF                 | 1   | HB                                |
| C2       | ECQU2A104MN  | 0.1UF, 250V             | 1   | △ ACP                             |
| C2       | ECQV1H104JM  | 0.1UF                   | 1   | INV                               |
| C2       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN                              |
| C2       | QCBG1H104ZFA | 0.1UF                   | 1   | CPL                               |
| C2       | QCBG1H104ZFA | 0.1UF                   | 1   | MKB2                              |
| C2       | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ                               |
| C3       | ECCW3F180JGE | 18PF                    | 1   | △ INV                             |
| C3       | ECUV1C224KBX | 0.22UF                  | 1   | MAIN                              |
| C3       | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ                               |
| C3       | QCBG1H104ZFA | 0.1UF                   | 1   | HB                                |
| C3       | QCBG1H104ZFA | 0.1UF                   | 1   | MKB2                              |
| C4       | ECEA0JKA470  | 47UF, 6.3V              | 1   | CPL                               |
| C4       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN                              |
| C4       | ECUV1H104ZFX | 0.1UF                   | 1   | INV                               |
| C4       | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ                               |
| C4       | QCBG1H104ZFA | 0.1UF                   | 1   | MKB2                              |
| C5       | ECBT1H470J   | 47PF                    | 1   | MKB2                              |
| C5       | ECEA0JKA221  | 220UF, 6.3V             | 1   | CPL                               |
| C5       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN                              |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| C5       | QCBG1H104ZF  | 0.1UF                   | 1   | FAJ     |
| C6       | ECBT1H470J   | 47PF                    | 1   | CPL     |
| C6       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C6       | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C6       | ECBT1H470J   | 47PF                    | 1   | MKB2    |
| C7       | ECBT1H470J   | 47PF                    | 1   | CPL     |
| C7       | ECEA1CKA100  | 10UF,16V                | 1   | FAJ     |
| C7       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C7,8     | ECBT1H470J   | 47PF                    | 2   | MKB2    |
| C8       | ECEA1CKA100  | 10UF,16V                | 1   | FAJ     |
| C8       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C8       | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C9       | ECBT1H470J   | 47PF                    | 1   | MKB2    |
| C9       | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C9       | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C9       | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C10      | ECBT1H470J   | 47PF                    | 1   | MKB2    |
| C10      | ECEA1EKA470  | 47UF,25V                | 1   | ASUB    |
| C10      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C10      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C10      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C11      | ECBT1H470J   | 47PF                    | 1   | MKB2    |
| C11      | ECEA1EKA470  | 47UF,25V                | 1   | ASUB    |
| C11      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C11      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C11      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C12      | ECBT1H470J   | 47PF                    | 1   | MKB2    |
| C12      | ECEA1EKA470  | 47UF,25V                | 1   | ASUB    |
| C12      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C12      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C12      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C13      | ECEA1EKA470  | 47UF,25V                | 1   | ASUB    |
| C13      | ECQE1A104M6  | 0.1UF,125V              | 1   | △ FAJ   |
| C13      | ECUV1H103KRG | 0.01UF                  | 1   | MAIN    |
| C13      | QCBG1H104ZFA | 0.1UF                   | 1   | MKB3    |
| C13      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C14      | ECA1EM101    | 100UF,25V               | 1   | ASUB    |
| C14      | ECQV1H683JM  | 0.068UF                 | 1   | FAJ     |
| C14      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C14      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C15      | ECQV1H683JM  | 0.068UF                 | 1   | FAJ     |
| C15      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C15      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C16      | ECA1EM472E   | 4700UF,25V              | 1   | FAJ     |
| C16      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C16      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C17      | ECA1EM472E   | 4700UF,25V              | 1   | FAJ     |
| C17      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C17      | QCBG1H104ZFA | 0.1UF                   | 1   | CPL     |
| C18      | ECA1EM472E   | 4700UF,25V              | 1   | FAJ     |
| C18      | ECUV1H030CCN | 3PF                     | 1   | MAIN    |
| C19      | ECA1EM472E   | 4700UF,25V              | 1   | FAJ     |
| C19      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C21,22   | ECQV1H104JM  | 0.1UF                   | 2   | FAJ     |
| C21-23   | ECUV1H104ZFX | 0.1UF                   | 3   | MAIN    |
| C23      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C24      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C24      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C25,26   | ECQV1H104JM  | 0.1UF                   | 2   | FAJ     |
| C26      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C27      | ECCR1H220J   | 22PF                    | 1   | FAJ     |
| C27      | ECUV1H680JG  | 68PF                    | 1   | MAIN    |
| C28      | ECEA1CKA100  | 10UF,16V                | 1   | FAJ     |
| C28,29   | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C29      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C30      | ECBT1H102KB  | 0.001UF                 | 1   | CPC     |
| C30      | ECCR1H220J   | 22PF                    | 1   | FAJ     |
| C30      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C31      | ECBT1H102KB  | 0.001UF                 | 1   | CPC     |
| C31      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C31      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C32      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C32      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| C33      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C33      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C34      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C34      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C35      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C35      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C36      | ECQB1H223JF  | 0.022UF                 | 1   | FAJ     |
| C36      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C37      | ECQB1H473JF  | 0.047UF                 | 1   | FAJ     |
| C38      | ECQB1H223JF  | 0.022UF                 | 1   | FAJ     |
| C38      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C39      | ECQB1H473JF  | 0.047UF                 | 1   | FAJ     |
| C39,40   | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C40      | QCBG1H104ZFA | 0.1UF                   | 1   | CPR     |
| C41      | ECA1CM101    | 100UF,16V               | 1   | FAJ     |
| C41      | ECUV1H221JG  | 220PF                   | 1   | MAIN    |
| C41      | QCBG1H104ZFA | 0.1UF                   | 1   | CPR     |
| C42      | ECEA0JKA221  | 220UF,6.3V              | 1   | CPR     |
| C42      | ECQG1H472KZT | 0.0047UF                | 1   | FAJ     |
| C43      | ECEA0JKA470  | 47UF,6.3V               | 1   | CPR     |
| C43      | ECQB1H473JF  | 0.047UF                 | 1   | FAJ     |
| C43      | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C44      | ECQG1H472KZ  | 0.0047UF                | 1   | FAJ     |
| C45      | ECBT1H470J   | 47PF                    | 1   | CPR     |
| C45      | ECQB1H473JF  | 0.047UF                 | 1   | FAJ     |
| C46      | ECBT1H470J   | 47PF                    | 1   | CPR     |
| C46      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C47      | ECEA1HKN010  | 1UF,50V                 | 1   | FAJ     |
| C47      | QCBG1H104ZFA | 0.1UF                   | 1   | CPR     |
| C48      | ECEA1HKN010  | 1UF,50V                 | 1   | FAJ     |
| C48      | QCBG1H104ZFA | 0.1UF                   | 1   | CPR     |
| C49      | ECQB1H333JF  | 0.033UF                 | 1   | FAJ     |
| C49      | QCBG1H104ZFA | 0.1UF                   | 1   | CPR     |
| C50      | ECQG1H222KZ  | 0.0022UF                | 1   | FAJ     |
| C51      | ECQB1H333JF  | 0.033UF                 | 1   | FAJ     |
| C52      | ECQG1H222KZ  | 0.0022UF                | 1   | FAJ     |
| C53      | ECQG1H682KZ  | 0.0068UF                | 1   | FAJ     |
| C54      | ECEA0JKA470  | 47UF,6.3V               | 1   | FAJ     |
| C55      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C57      | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C58      | ECCR1H470J   | 47PF                    | 1   | FAJ     |
| C59      | ECQG1H332KZ  | 0.0033UF                | 1   | FAJ     |
| C60      | ECQG1H222KZ  | 0.0022UF                | 1   | FAJ     |
| C61      | ECQG1H332KZ  | 0.0033UF                | 1   | FAJ     |
| C62      | ECQG1H222KZ  | 0.0022UF                | 1   | FAJ     |
| C63-66   | QCBG1H104ZFA | 0.1UF                   | 4   | FAJ     |
| C67      | ECBT1H221KB  | 220PF                   | 1   | FAJ     |
| C68      | ECEA1HKN010  | 1UF,50V                 | 1   | FAJ     |
| C69      | ECCR1H151J   | 150PF                   | 1   | FAJ     |
| C70,71   | QCBG1H104ZFA | 0.1UF                   | 2   | FAJ     |
| C72      | ECCR1H151J   | 150PF                   | 1   | FAJ     |
| C73      | ECEA1HKN010  | 1UF,50V                 | 1   | FAJ     |
| C74      | ECQG1H472KZ  | 0.0047UF                | 1   | FAJ     |
| C75      | ECEA1HKN010  | 1UF,50V                 | 1   | FAJ     |
| C76      | ECQG1H472KZ  | 0.0047UF                | 1   | FAJ     |
| C77,78   | ECQV1H683JM  | 0.068UF                 | 2   | FAJ     |
| C79      | ECCR1H471J   | 470PF                   | 1   | FAJ     |
| C80,81   | ECQV1H683JM  | 0.068UF                 | 2   | FAJ     |
| C82      | ECQB1H473JF  | 0.047UF                 | 1   | FAJ     |
| C83      | ECQB1H223JF  | 0.022UF                 | 1   | FAJ     |
| C84      | ECCR1H471J   | 470PF                   | 1   | FAJ     |
| C85      | ECEA1CKN100  | 10UF,16V                | 1   | FAJ     |
| C86,87   | ECQV1H104JM  | 0.1UF                   | 2   | FAJ     |
| C88      | ECCR1H470J   | 47PF                    | 1   | FAJ     |
| C89,90   | QCBG1H104ZFA | 0.1UF                   | 2   | FAJ     |
| C91      | ECCR1H470J   | 47PF                    | 1   | FAJ     |
| C92      | ECEA1CKA100  | 10UF,16V                | 1   | FAJ     |
| C93      | ECA1CM101    | 100UF,16V               | 1   | FAJ     |
| C94-96   | ECCR1H221J   | 220PF                   | 3   | FAJ     |
| C97      | ECEA1CKN100  | 10UF,16V                | 1   | FAJ     |
| C98      | ECQG1H472KZ  | 0.0047UF                | 1   | FAJ     |
| C99      | ECEA1CKN100  | 10UF,16V                | 1   | FAJ     |
| C100,01  | ECQG1H472KZ  | 0.0047UF                | 2   | FAJ     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| C101     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C102     | ECQG1H332KZ  | 0.0033UF                | 1   | FAJ     |
| C102     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C103     | ECEA0JKA101  | 100UF, 6.3V             | 1   | MAIN    |
| C103     | ECQG1H332KZ  | 0.0033UF                | 1   | FAJ     |
| C104     | ECQG1H472KZ  | 0.0047UF                | 1   | FAJ     |
| C104     | ECUV1H470JG  | 47PF                    | 1   | MAIN    |
| C105     | ECQG1H472KZ  | 0.0047UF                | 1   | FAJ     |
| C105     | ECUV1H470JG  | 47PF                    | 1   | MAIN    |
| C106     | ECQV1H105JM  | 1UF                     | 1   | FAJ     |
| C106     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C107     | ECQV1H105JM  | 1UF                     | 1   | FAJ     |
| C107     | ECUV1H333KBX | 0.033UF                 | 1   | MAIN    |
| C108     | ECA1EM102E   | 1000UF, 25V             | 1   | FAJ     |
| C108     | ECUV1H333KBX | 0.033UF                 | 1   | MAIN    |
| C109     | ECA1EM102E   | 1000UF, 25V             | 1   | FAJ     |
| C109     | ECUV1H103KBG | 0.01UF                  | 1   | MAIN    |
| C110     | ECQV1H105JM  | 1UF                     | 1   | FAJ     |
| C110     | ECUV1H472KBG | 4700PF                  | 1   | MAIN    |
| C111     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C112     | ECUV1H100DCN | 10PF                    | 1   | MAIN    |
| C113     | ECUV1H182JX  | 1800PF                  | 1   | MAIN    |
| C114     | ECEA50Y1R5K  | 1.5UF, 50V              | 1   | FAJ     |
| C114     | ECUV1H223KBX | 0.022UF                 | 1   | MAIN    |
| C115     | ECEA50Y1R5K  | 1.5UF, 50V              | 1   | FAJ     |
| C115     | ECUV1H100DCN | 10PF                    | 1   | MAIN    |
| C116     | ECQG1H472KZT | 0.0047UF                | 1   | FAJ     |
| C116, 17 | ECUV1H101JG  | 100PF                   | 2   | MAIN    |
| C117     | QCBG1H104ZFA | 0.1UF                   | 1   | FAJ     |
| C118, 19 | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C122-31  | ECUV1H104ZFX | 0.1UF                   | 10  | MAIN    |
| C201     | ECUV1H470JG  | 47PF                    | 1   | MAIN    |
| C201-05  | QCBG1H104ZFA | 0.1UF                   | 5   | JACK    |
| C206     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C206     | QCBG1H104ZFA | 0.1UF                   | 1   | JACK    |
| C207     | ECUV1H100DCN | 10PF                    | 1   | MAIN    |
| C207     | QCBG1H104ZFA | 0.1UF                   | 1   | JACK    |
| C208     | ECUV1H100DCN | 10PF                    | 1   | MAIN    |
| C209, 10 | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C210     | QCBG1H104ZFA | 0.1UF                   | 1   | JACK    |
| C211     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C211     | QCBG1H104ZFA | 0.1UF                   | 1   | JACK    |
| C212-25  | ECUV1H104ZFX | 0.1UF                   | 14  | MAIN    |
| C301-03  | ECUV1H104ZFX | 0.1UF                   | 3   | MAIN    |
| C304, 05 | ECUV1H030CCN | 3PF                     | 2   | MAIN    |
| C306-29  | ECUV1H104ZFX | 0.1UF                   | 24  | MAIN    |
| C330     | EECS5R5V105  | 1F, 5.5V                | 1   | MAIN    |
| C331     | ECEA0JKA101  | 100UF, 6.3V             | 1   | MAIN    |
| C332     | EECS5R5V105  | 1F, 5.5V                | 1   | MAIN    |
| C333     | ECRR1H104ZF  | 0.1UF                   | 1   | MAIN    |
| C334, 35 | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C336, 37 | ECUV1H471JG  | 470PF                   | 2   | MAIN    |
| C338     | ECA0JM102    | 1000UF, 6.3V            | 1   | MAIN    |
| C339-41  | ECUV1H104ZFX | 0.1UF                   | 3   | MAIN    |
| C342, 43 | ECEA1CKA100  | 10UF, 16V               | 2   | MAIN    |
| C344     | ECUV1H102JX  | 0.001UF                 | 1   | MAIN    |
| C345, 46 | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C347     | ECEA0JKA101  | 100UF, 6.3V             | 1   | MAIN    |
| C348, 49 | ECEA1CKA100  | 10UF, 16V               | 2   | MAIN    |
| C350     | ECUV1H472KBG | 0.0047UF                | 1   | MAIN    |
| C351     | ECUV1C224KBX | 0.22UF                  | 1   | MAIN    |
| C352, 53 | ECUV1H151JG  | 150PF                   | 2   | MAIN    |
| C354     | ECEA1CKA100  | 10UF, 16V               | 1   | MAIN    |
| C355     | ECA0JM102    | 1000UF, 6.3V            | 1   | MAIN    |
| C356, 57 | ECRR1H104ZF  | 0.1UF                   | 2   | MAIN    |
| C358, 59 | ECUV1H104ZFX | 0.1UF                   | 2   | MAIN    |
| C360     | ECUV1H102JX  | 1000PF                  | 1   | MAIN    |
| C361     | ECEA1CKA100  | 10UF, 16V               | 1   | MAIN    |
| C362     | ECUV1H104ZFX | 0.1UF                   | 1   | MAIN    |
| C363     | ECA1EM101    | 100UF, 25V              | 1   | MAIN    |
| C364     | ECUV1C224KBX | 0.22UF                  | 1   | MAIN    |
| C365-70  | ECUV1H104ZFX | 0.1UF                   | 6   | MAIN    |
| C371, 72 | ECUV1H102JX  | 0.001UF                 | 2   | MAIN    |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| D1       | MA165TA5     | DIODE                   | 1   | FAJ     |
| D1       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D1       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D2       | MA111        | DIODE                   | 1   | MAIN    |
| D2       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D2       | MA165TA5     | DIODE                   | 1   | FAJ     |
| D2       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D3       | ERA1502V5    | DIODE                   | 1   | FAJ     |
| D3       | MA111        | DIODE                   | 1   | MAIN    |
| D3       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D3       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D4       | ERA1502V5    | DIODE                   | 1   | FAJ     |
| D4       | MA111        | DIODE                   | 1   | MAIN    |
| D4       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D4       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D5       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D5       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D5       | SVDGS3V20-15 | DIODE                   | 1   | △ FAJ   |
| D6       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D6       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D6       | SVDGS3V20-15 | DIODE                   | 1   | △ FAJ   |
| D7       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D7       | MA165TA5     | DIODE                   | 1   | CPL     |
| D7       | SVDGS3V20-15 | DIODE                   | 1   | △ FAJ   |
| D8       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D8       | MA165TA5     | DIODE                   | 1   | CPL     |
| D8       | SVDGS3V20-15 | DIODE                   | 1   | △ FAJ   |
| D9       | MA165TA5     | DIODE                   | 1   | MKB1    |
| D9       | MA165TA5     | DIODE                   | 1   | FAJ     |
| D9       | MA165TA5     | DIODE                   | 1   | LCDL    |
| D10      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D10      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D10      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D11      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D11      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D11      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D12      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D12      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D12      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D13      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D13      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D13      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D14      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D14      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D14      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D15      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D15      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D15      | MA165TA5     | DIODE                   | 1   | CPL     |
| D16      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D16      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D16      | MA165TA5     | DIODE                   | 1   | CPL     |
| D17      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D17      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D17      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D18      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D18      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D18      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D19      | EK04         | DIODE                   | 1   | FAJ     |
| D19      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D19      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D20      | EK04         | DIODE                   | 1   | FAJ     |
| D20      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D20      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D21      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D21      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D21      | MA4150M      | DIODE                   | 1   | FAJ     |
| D22      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D22      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D22      | MA165TA5     | DIODE                   | 1   | LCDL    |
| D23      | MA165TA5     | DIODE                   | 1   | MKB1    |
| D23      | MA165TA5     | DIODE                   | 1   | FAJ     |
| D23      | MA165TA5     | DIODE                   | 1   | CPL     |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|----------|----------|-------------------------|-----|---------|
| D24      | EK04     | DIODE                   | 1   | FAJ     |
| D24      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D24      | MA165TA5 | DIODE                   | 1   | CPL     |
| D25      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D25      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D25      | MA4075L  | DIODE                   | 1   | FAJ     |
| D26      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D26      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D27      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D27      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D28      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D28      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D29      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D29      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D30      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D30      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D31      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D31      | MA165TA5 | DIODE                   | 1   | LCDL    |
| D32      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D32      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D33      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D33      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D34      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D34      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D35      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D35      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D36      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D36      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D37      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D37      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D38      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D38      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D39      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D39      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D40      | EK04     | DIODE                   | 1   | FAJ     |
| D40      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D40      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D41      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D41      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D42      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D42      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D43      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D43      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D44      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D44      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D45      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D45      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D46      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D46      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D47      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D47      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D48      | MA165TA5 | DIODE                   | 1   | MKB1    |
| D48      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D49      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D49      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D50      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D50      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D51      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D51      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D52      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D52      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D53      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D53      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D54      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D54      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D55      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D55      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D56      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D56      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D57      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D57      | MA165TA5 | DIODE                   | 1   | LCDC    |
| D58      | MA165TA5 | DIODE                   | 1   | MKB2    |
| D58      | MA165TA5 | DIODE                   | 1   | LCDC    |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| D59      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D59      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D60      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D60      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D61      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D61      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D62      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D62      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D63      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D63      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D64      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D64      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D65      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D65      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D66      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D66      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D67      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D67      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D68      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D68      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D69      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D69      | MA165TA5     | DIODE                   | 1   | LCDC    |
| D70      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D70      | MA165TA5     | DIODE                   | 1   | CPL     |
| D71      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D71      | MA165TA5     | DIODE                   | 1   | CPL     |
| D72      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D72      | MA165TA5     | DIODE                   | 1   | CPL     |
| D73      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D73      | MA165TA5     | DIODE                   | 1   | CPL     |
| D74      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D74      | MA165TA5     | DIODE                   | 1   | CPL     |
| D75      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D75      | MA165TA5     | DIODE                   | 1   | CPL     |
| D76      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D76      | MA165TA5     | DIODE                   | 1   | CPL     |
| D77      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D77      | MA165TA5     | DIODE                   | 1   | CPL     |
| D78      | MA165TA5     | DIODE                   | 1   | MKB2    |
| D78      | MA165TA5     | DIODE                   | 1   | CPL     |
| D79-96   | MA165TA5     | DIODE                   | 24  | MKB2    |
| D97-101  | MA165TA5     | DIODE                   | 33  | MKB3    |
| D101     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D101     | MA152WKT     | DIODE                   | 1   | MAIN    |
| D102     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D102     | MA152WK      | DIODE                   | 1   | MAIN    |
| D102     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D103     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D103     | MA152WA      | DIODE                   | 1   | MAIN    |
| D103     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D104     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D104     | MA152WA      | DIODE                   | 1   | MAIN    |
| D104,05  | MA165TA5     | DIODE                   | 2   | MKB3    |
| D106     | LN282RPXVTX3 | LED                     | 1   | LCDC    |
| D106-08  | MA165TA5     | DIODE                   | 3   | MKB3    |
| D109     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D109     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D110     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D110     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D111     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D111     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D112     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D112-18  | MA165TA5     | DIODE                   | 7   | MKB3    |
| D119     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D119     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D120     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D120     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D121     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D121     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D122     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D122     | MA165TA5     | DIODE                   | 1   | MKB3    |
| D125     | LN382GPXVTX3 | LED                     | 1   | LCDL    |
| D126     | LN282RPXVTX3 | LED                     | 1   | CPL     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| D127     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D127     | LN282RPXVTX3 | LED                     | 1   | CPL     |
| D128     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D128     | LN282RPXVTX3 | LED                     | 1   | CPL     |
| D129     | LN382GPXVTX2 | LED                     | 1   | LCDL    |
| D129     | LN382GPXVTX3 | LED                     | 1   | CPL     |
| D130     | LN382GPXVTX2 | LED                     | 1   | LCDL    |
| D130     | LN382GPXVTX3 | LED                     | 1   | CPL     |
| D131-33  | LN382GPXVTX2 | LED                     | 3   | LCDL    |
| D134     | LN282RPXVTX2 | LED                     | 1   | LCDL    |
| D201     | MA165TA5     | DIODE                   | 1   | LCDR    |
| D201     | MA165TA5     | DIODE                   | 1   | JACK    |
| D202     | MA165TA5     | DIODE                   | 1   | LCDR    |
| D202     | MA165TA5     | DIODE                   | 1   | JACK    |
| D203-25  | MA165TA5     | DIODE                   | 23  | LCDR    |
| D226-29  | MA165TA5     | DIODE                   | 4   | CPC     |
| D230-33  | MA165TA5     | DIODE                   | 4   | CPR     |
| D234-37  | MA165TA5     | DIODE                   | 4   | CPC     |
| D238-41  | MA165TA5     | DIODE                   | 4   | CPR     |
| D242-45  | MA165TA5     | DIODE                   | 4   | CPC     |
| D246-49  | MA165TA5     | DIODE                   | 4   | CPR     |
| D250-53  | MA165TA5     | DIODE                   | 4   | CPC     |
| D254-57  | MA165TA5     | DIODE                   | 4   | CPR     |
| D258-60  | MA165TA5     | DIODE                   | 3   | CPC     |
| D261-72  | MA165TA5     | DIODE                   | 12  | CPR     |
| D301     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D301     | MA2051LF     | DIODE                   | 1   | MAIN    |
| D302     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D302     | MA152WKT     | DIODE                   | 1   | MAIN    |
| D303     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D303     | MA152WA      | DIODE                   | 1   | MAIN    |
| D304     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D304     | MA152WKT     | DIODE                   | 1   | MAIN    |
| D305     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D306     | LN282RPXVTX2 | LED                     | 1   | CPR     |
| D306     | SFPB-74V     | DIODE                   | 1   | MAIN    |
| D307     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D307     | MA111        | DIODE                   | 1   | MAIN    |
| D308     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D308     | MA2062LF     | DIODE                   | 1   | △ MAIN  |
| D309     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D309     | MA8033H      | DIODE                   | 1   | MAIN    |
| D310     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D310     | MA1062MTR    | DIODE                   | 1   | MAIN    |
| D311     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D311     | MA8056M      | DIODE                   | 1   | MAIN    |
| D312     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D312     | SFPB-74V     | DIODE                   | 1   | MAIN    |
| D313     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D313     | MA111        | DIODE                   | 1   | MAIN    |
| D314     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D314     | MA8051L      | DIODE                   | 1   | MAIN    |
| D315     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D315     | MA8082M      | DIODE                   | 1   | MAIN    |
| D316     | LN382GPXVTX2 | LED                     | 1   | LCDR    |
| D316     | MA111        | DIODE                   | 1   | MAIN    |
| D317     | LN282RPXVTX2 | LED                     | 1   | LCDR    |
| D317     | MA111        | DIODE                   | 1   | MAIN    |
| D318-20  | LN282RPXVTX2 | LED                     | 3   | LCDR    |
| D323-31  | LN282RPXVTX3 | LED                     | 9   | CPC     |
| D332-34  | LN382GPXVTX3 | LED                     | 3   | CPC     |
| D335-38  | LN282RPXVTX3 | LED                     | 4   | CPC     |
| D339, 40 | LN382GPXVTX3 | LED                     | 2   | CPC     |
| D341-44  | LN282RPXVTX3 | LED                     | 4   | CPC     |
| D345     | LN382GPXVTX3 | LED                     | 1   | CPC     |
| D351-58  | LN382GPXVTX3 | LED                     | 8   | CPR     |
| D359-68  | LN282RPXVTX3 | LED                     | 10  | CPR     |
| D369     | LN382GPXVTX3 | LED                     | 1   | CPR     |
| D370, 71 | LN282RPXVTX3 | LED                     | 2   | CPR     |
| D372-76  | LN382GPXVTX3 | LED                     | 5   | CPR     |
| D377     | LN282RPXVTX3 | LED                     | 1   | CPR     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                           |
|----------|--------------|-------------------------|-----|-----------------------------------|
| F1       | XBA1C20NB100 | FUSE, 2A 125V           | 1   | △ ACP, M, MC, XM                  |
| F1       | XBA2C12TB0L  | FUSE, T125AL 250V       | 1   | △ ACP, X, XS, XD, XT, XA          |
| F2       | XBA2C08TB0L  | FUSE, T800mAL 250V      | 1   | △ ACP, X, XS, XD, XT, XA          |
| F3       | XBA2C08TB0L  | FUSE, T800mAL 250V      | 1   | △ ACP, EN, EZ, EK, EW, EF, EA, EP |
| F3       | XBA2C08TB0L  | FUSE, T800mAL 250V      | 1   | △ ACP, EH, XL, XR, XP, XW, X, XS  |
| F3       | XBA2C08TB0L  | FUSE, T800mAL 250V      | 1   | △ ACP, XD, XT, XA                 |
| F4       | XBA2C25TB0L  | FUSE, 25A 125V          | 1   | △ FAJ, EN, EZ, EK, EW, EF, EA, EP |
| F4       | XBA2C25TB0L  | FUSE, 25A 125V          | 1   | △ FAJ, EH, X, XL, XR, XS, XD, XT  |
| F4       | XBA2C25TB0L  | FUSE, 25A 125V          | 1   | △ FAJ, XP, XW, XA                 |
| F4       | XBA1C25NB100 | FUSE, T25AL 250V        | 1   | △ FAJ, M, MC, XM                  |
| IC1      | HD74LS138P   | IC                      | 1   | MKB2                              |
| IC1      | M37471M2196S | IC                      | 1   | CPL                               |
| IC1      | QCPL-260L    | IC                      | 1   | FAJ                               |
| IC1      | TC74VHC138F  | IC                      | 1   | MAIN                              |
| IC2      | HD74LS07P    | IC                      | 1   | CPL                               |
| IC2      | HD74LS138P   | IC                      | 1   | MKB2                              |
| IC2      | M5F78M15L    | IC                      | 1   | △ FAJ                             |
| IC2      | TC74VHC139F  | IC                      | 1   | MAIN                              |
| IC3      | M5218AL      | IC                      | 1   | MKB3                              |
| IC3      | M5F79M15L    | IC                      | 1   | △ FAJ                             |
| IC3      | TC74VHC139F  | IC                      | 1   | MAIN                              |
| IC4      | M5218AL      | IC                      | 1   | FAJ                               |
| IC4      | MN103002A    | IC                      | 1   | MAIN                              |
| IC5      | M5218AL      | IC                      | 1   | FAJ                               |
| IC5      | TC7SH02FU    | IC                      | 1   | MAIN                              |
| IC6      | IMIFS741BZBD | IC                      | 1   | MAIN                              |
| IC6, 7   | M5218AL      | IC                      | 2   | FAJ                               |
| IC7      | TC7SH08FU    | IC                      | 1   | MAIN                              |
| IC8      | M5218AL      | IC                      | 1   | FAJ                               |
| IC8      | TC74VHC08F   | IC                      | 1   | MAIN                              |
| IC9      | K16V1204CTL6 | IC                      | 1   | MAIN                              |
| IC9      | M5218AL      | IC                      | 1   | FAJ                               |
| IC10     | K16V1204CTL6 | IC                      | 1   | MAIN                              |
| IC10     | M37471M2196S | IC                      | 1   | CPR                               |
| IC10     | M5218AL      | IC                      | 1   | FAJ                               |
| IC11     | HD74LS138P   | IC                      | 1   | CPR                               |
| IC11     | M29LV160B8TN | IC                      | 1   | MAIN                              |
| IC11     | M5218AL      | IC                      | 1   | FAJ                               |
| IC12     | HD74LS07P    | IC                      | 1   | CPR                               |
| IC12     | M29LV160B8TN | IC                      | 1   | MAIN                              |
| IC12     | M5218AL      | IC                      | 1   | FAJ                               |
| IC13     | HD74LS07P    | IC                      | 1   | CPR                               |
| IC13     | M5218AL      | IC                      | 1   | FAJ                               |
| IC13     | QSIGX3C16008 | IC                      | 1   | MAIN                              |
| IC14     | M5218AL      | IC                      | 1   | FAJ                               |
| IC14     | QSIGX3C16007 | IC                      | 1   | MAIN                              |
| IC15     | M5218AL      | IC                      | 1   | FAJ                               |
| IC15     | QSIGX3C32021 | IC                      | 1   | MAIN                              |
| IC18     | A49BV161490T | IC                      | 1   | MAIN                              |
| IC19     | TC7W08FTE12L | IC                      | 1   | MAIN                              |
| IC20     | T55V2161FT16 | IC                      | 1   | MAIN                              |
| IC21     | TC7SH32FU    | IC                      | 1   | MAIN                              |
| IC22     | TC7WH125FU   | IC                      | 1   | MAIN                              |
| IC23     | TC7WH74FU    | IC                      | 1   | MAIN                              |
| IC24     | T7SZ32FUT85L | IC                      | 1   | MAIN                              |
| IC101    | D72070GF3BE  | IC                      | 1   | MAIN                              |
| IC102    | TC7WT241FU   | IC                      | 1   | MAIN                              |
| IC103    | TC7S14FT85L  | IC                      | 1   | MAIN                              |
| IC104    | TC7WT241FU   | IC                      | 1   | MAIN                              |

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| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| IC105    | TC7SU04FT85L | IC                      | 1   | MAIN    |
| IC106    | TC74LCX245F  | IC                      | 1   | MAIN    |
| IC107    | M5M34051FPE2 | IC                      | 1   | MAIN    |
| IC108    | SED1354F2A   | IC                      | 1   | MAIN    |
| IC109    | T74LCX16244A | IC                      | 1   | MAIN    |
| IC110    | LC32V4265T25 | IC                      | 1   | MAIN    |
| IC111    | TC7SU04FT85L | IC                      | 1   | MAIN    |
| IC112    | TC7SH08FU    | IC                      | 1   | MAIN    |
| IC202    | TC74LCX541F  | IC                      | 1   | MAIN    |
| IC203,04 | TC74VHC138F  | IC                      | 2   | MAIN    |
| IC205    | QSIGX3C64004 | IC                      | 1   | MAIN    |
| IC206    | QSIGX3C64005 | IC                      | 1   | MAIN    |
| IC207    | QSIGX3C64006 | IC                      | 1   | MAIN    |
| IC208    | QSIGX3C64007 | IC                      | 1   | MAIN    |
| IC213    | D82398GD001  | IC                      | 1   | MAIN    |
| IC214,15 | T7SZ32FUT85L | IC                      | 2   | MAIN    |
| IC301    | TC74VHC245F  | IC                      | 1   | MAIN    |
| IC302    | TC74VHC574F  | IC                      | 1   | MAIN    |
| IC303    | TC74VHC245F  | IC                      | 1   | MAIN    |
| IC304    | S21065LKS240 | IC                      | 1   | MAIN    |
| IC305,06 | K16S1120DTG8 | IC                      | 2   | MAIN    |
| IC307    | PCM1728E2K   | IC                      | 1   | MAIN    |
| IC308    | BA10393F-E2  | IC                      | 1   | MAIN    |
| IC309    | PCM1800E-T1  | IC                      | 1   | MAIN    |
| IC310    | M5218AFPE3   | IC                      | 1   | MAIN    |
| IC312    | MN1382CTX    | IC                      | 1   | MAIN    |
| IP1-P4   | ICP-N10T104  | IC PROTECTOR            | 4   | △ FAJ   |
| IP5,P6   | ICP-N75T104  | IC PROTECTOR            | 2   | △ FAJ   |
| IP7,P8   | ICP-N10T104  | IC PROTECTOR            | 2   | △ FAJ   |
| JK1      | QJYG010AA    | JACK,HEADPHONE          | 1   | HB      |
| JK1      | QJSG016AA    | JACK,MIDI THRU          | 1   | FAJ     |
| JK1      | SJVD0203B    | JACK,AC IN              | 1   | △ ACP   |
| JK2,3    | QJSG016AA    | JACK,MIDI OUT,IN        | 2   | FAJ     |
| JK4      | QJYG011AA    | JACK,MIC                | 1   | FAJ     |
| JK5      | QJYG012AA    | JACK,AUX IN L           | 1   | FAJ     |
| JK6      | QJYG012AA    | JACK,AUX IN R,R+L       | 1   | FAJ     |
| JK7      | QJYG012AA    | JACK,LINE OUT L         | 1   | FAJ     |
| JK8      | QJYG012AA    | JACK,LINE OUT R,R+L     | 1   | FAJ     |
| JK201    | QJSG017AA    | JACK,COMPUTER           | 1   | JACK    |
| JK202,03 | QJYG012AA    | JACK,FOOT SW1,2         | 2   | JACK    |
| JK204    | SJSG1390A    | JACK,FOOT CONTROLLER    | 1   | JACK    |
| JK205    | QJYG010AA    | JACK,EXP PEDAL          | 1   | JACK    |
| JP3      | ERJ6GEY0R00V | 0Ω                      | 1   | MAIN    |
| JP6      | ERJ6GEY0R00V | 0Ω                      | 1   | MAIN    |
| JP201    | ERJ6GEY0R00V | 0Ω                      | 1   | MAIN    |
| JP203    | ERJ6GEY0R00V | 0Ω                      | 1   | MAIN    |
| L1       | QLBG003A     | COIL                    | 1   | MAIN    |
| L1       | QLBG005A     | COIL                    | 1   | FAJ     |
| L1       | QLQGT2T100LA | COIL                    | 1   | △ ACP   |
| L1       | QLQGT3T131LA | COIL                    | 1   | HB      |
| L1       | QLBG005A     | COIL                    | 1   | INV     |
| L2       | QLBG005A     | COIL                    | 1   | FAJ     |
| L2       | QLBG005A     | COIL                    | 1   | MAIN    |
| L2       | QLBG005A     | COIL                    | 1   | INV     |
| L3       | QLBG005A     | COIL                    | 1   | FAJ     |
| L3       | QLBG005A     | COIL                    | 1   | INV     |
| L4       | QLBG005A     | COIL                    | 1   | FAJ     |
| L4       | QLQGT1B101KA | COIL                    | 1   | INV     |
| L5-L9    | QLBG005A     | COIL                    | 5   | FAJ     |
| L10,11   | QLQGT3T131LA | COIL                    | 2   | FAJ     |
| L12-15   | QLBG005A     | COIL                    | 4   | FAJ     |
| L16-19   | QLQGT3T131LA | COIL                    | 4   | FAJ     |
| L20,21   | QLBG005A     | COIL                    | 2   | FAJ     |
| L22-24   | QLQGT1D600LA | COIL                    | 3   | FAJ     |
| L28,29   | QLCGTKR68KA  | COIL                    | 2   | FAJ     |
| L30      | QLBG005A     | COIL                    | 1   | FAJ     |
| L36      | QLBG005A     | COIL                    | 1   | FAJ     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| L38,39   | QLBG005A     | COIL                    | 2   | FAJ     |
| L101-05  | QLBG005A     | COIL                    | 5   | MAIN    |
| L201-06  | QLQGT3T131LA | COIL                    | 6   | JACK    |
| L301,02  | QLQGT1T121LA | COIL                    | 2   | MAIN    |
| L303,04  | QLBG005A     | COIL                    | 2   | MAIN    |
| Q1       | 2SA1015TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q1       | 2SA830STPB   | TRANSISTOR              | 1   | CPL     |
| Q1       | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q1       | 2SB709AR     | TRANSISTOR              | 1   | MAIN    |
| Q1       | 2SD592ARS    | TRANSISTOR              | 1   | INV     |
| Q2       | 2SA1015TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q2       | 2SA830STPB   | TRANSISTOR              | 1   | CPL     |
| Q2       | 2SD592ARS    | TRANSISTOR              | 1   | INV     |
| Q2       | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q2       | 2SD601AQ     | TRANSISTOR              | 1   | MAIN    |
| Q3       | 2SA830STPB   | TRANSISTOR              | 1   | CPL     |
| Q3       | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q3       | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q3       | UN5216TX     | TRANSISTOR              | 1   | MAIN    |
| Q4       | 2SA830STPB   | TRANSISTOR              | 1   | CPL     |
| Q4       | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q4       | 2SD592ARS    | TRANSISTOR              | 1   | FAJ     |
| Q5       | 2SA830STPB   | TRANSISTOR              | 1   | CPL     |
| Q5       | 2SB621ARS    | TRANSISTOR              | 1   | FAJ     |
| Q5       | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q6       | 2SA1015TPE2  | TRANSISTOR              | 1   | CPL     |
| Q6       | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q7       | 2SA1015TPE2  | TRANSISTOR              | 1   | CPL     |
| Q7       | 2SB621ARS    | TRANSISTOR              | 1   | FAJ     |
| Q7       | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q8       | 2SA1015TPE2  | TRANSISTOR              | 1   | CPL     |
| Q8       | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q8       | SLA5007      | TRANSISTOR              | 1   | FAJ     |
| Q9       | 2SA1015TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q9       | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q10      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q10      | 2SJ425       | TRANSISTOR              | 1   | FAJ     |
| Q11      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q11      | 2SK1188      | TRANSISTOR              | 1   | FAJ     |
| Q12      | 2SA1015TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q12,13   | 2SB709AR     | TRANSISTOR              | 2   | ASUB    |
| Q13,14   | 2SC1815TPE2  | TRANSISTOR              | 2   | FAJ     |
| Q14      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q15      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q15      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q16      | 2SA1015TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q16,17   | 2SB709AR     | TRANSISTOR              | 2   | ASUB    |
| Q17,18   | 2SC1815TPE2  | TRANSISTOR              | 2   | FAJ     |
| Q18      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q19      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q19      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q20      | 2SA830STPB   | TRANSISTOR              | 1   | CPR     |
| Q20      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q20      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q21      | 2SA830STPB   | TRANSISTOR              | 1   | CPR     |
| Q21      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q21      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q22      | 2SA1015TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q22      | 2SA830STPB   | TRANSISTOR              | 1   | CPR     |
| Q22      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q23      | 2SA830STPB   | TRANSISTOR              | 1   | CPR     |
| Q23      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q23      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q24      | 2SA830STPB   | TRANSISTOR              | 1   | CPR     |
| Q24      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q24      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q25      | 2SA830STPB   | TRANSISTOR              | 1   | CPR     |
| Q25      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q25      | 2SC1815TPE2  | TRANSISTOR              | 1   | FAJ     |
| Q26      | 2SB941       | TRANSISTOR              | 1   | FAJ     |
| Q26      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q27-29   | 2SB709AR     | TRANSISTOR              | 3   | ASUB    |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| Q30,31   | 2SD601AQ     | TRANSISTOR              | 2   | ASUB    |
| Q32      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q33      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q34      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q35      | 2SD601AQ     | TRANSISTOR              | 1   | ASUB    |
| Q36      | 2SB709AR     | TRANSISTOR              | 1   | ASUB    |
| Q101,02  | UN511NTX     | TRANSISTOR              | 2   | MAIN    |
| Q103     | UN5216TX     | TRANSISTOR              | 1   | MAIN    |
| Q301     | 2SB952A      | TRANSISTOR              | 1   | MAIN    |
| Q302     | 2SC1815TPE2  | TRANSISTOR              | 1   | MAIN    |
| Q303     | 2SD601AQ     | TRANSISTOR              | 1   | MAIN    |
| Q304     | 2SD592ARS    | TRANSISTOR              | 1   | MAIN    |
| Q305     | 2SB952A      | TRANSISTOR              | 1   | MAIN    |
| Q306     | 2SC1815TPE2  | TRANSISTOR              | 1   | MAIN    |
| Q307     | 2SD601AQ     | TRANSISTOR              | 1   | MAIN    |
| Q309     | 2SB709AR     | TRANSISTOR              | 1   | MAIN    |
| R1       | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R1       | ERDS2TJ102   | 1KΩ                     | 1   | MKB3    |
| R1       | ERDS2TJ222   | 2.2KΩ                   | 1   | LCDC    |
| R1       | ERDS2TJ333   | 33KΩ                    | 1   | CPL     |
| R1       | ERDS2TJ680   | 68Ω                     | 1   | FAJ     |
| R1       | ERJ6GEYJ102V | 1KΩ                     | 1   | MAIN    |
| R1       | ERJ6GEYJ472V | 4.7KΩ                   | 1   | INV     |
| R2       | ERDS2T0      | 0Ω                      | 1   | CPL     |
| R2       | ERDS2TJ101   | 100Ω                    | 1   | MKB3    |
| R2       | ERDS2TJ472   | 4.7KΩ                   | 1   | LCDC    |
| R2       | ERJ6GEYJ104V | 100KΩ                   | 1   | MAIN    |
| R2       | ERJ6GEYJ472V | 4.7KΩ                   | 1   | INV     |
| R3       | ERDS2TJ101   | 100Ω                    | 1   | CPL     |
| R3       | ERDS2TJ472   | 4.7KΩ                   | 1   | MKB3    |
| R3       | ERJ6GEYJ101V | 100Ω                    | 1   | MAIN    |
| R3       | ERX2SJ1R0E   | 1Ω, 2W, FLAME-PROOF     | 1   | △ FAJ   |
| R4       | ERDS2TJ101   | 100Ω                    | 1   | CPL     |
| R4       | ERDS2TJ472   | 4.7KΩ                   | 1   | MKB3    |
| R4       | ERDS2TJ680   | 68Ω                     | 1   | FAJ     |
| R4       | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R5       | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R5       | ERDS2TJ103   | 10KΩ                    | 1   | FAJ     |
| R5       | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R5       | EROS2TKF1001 | 1KΩ                     | 1   | HB      |
| R5       | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R6       | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R6       | ERDS2TJ103   | 10KΩ                    | 1   | FAJ     |
| R6       | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R6       | EROS2TKF1001 | 1KΩ                     | 1   | HB      |
| R6       | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R7       | ERDS2TJ102   | 1KΩ                     | 1   | CPL     |
| R7       | ERDS2TJ683   | 68KΩ                    | 1   | FAJ     |
| R7       | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R8       | ERDS2TJ102   | 1KΩ                     | 1   | CPL     |
| R8       | ERDS2TJ683   | 68KΩ                    | 1   | FAJ     |
| R8       | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R9       | ERDS2TJ102   | 1KΩ                     | 1   | CPL     |
| R9       | ERDS2TJ330   | 33Ω                     | 1   | FAJ     |
| R9       | ERJ6GEYOR00V | 0Ω                      | 1   | MAIN    |
| R10      | ERDS2TJ102   | 1KΩ                     | 1   | CPL     |
| R10      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R11      | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R11      | ERDS2TJ102   | 1KΩ                     | 1   | CPL     |
| R11      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R11      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R12      | ERDS2TJ102   | 1KΩ                     | 1   | CPL     |
| R12      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R12      | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R13      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R13      | ERDS2TJ151   | 150Ω                    | 1   | FAJ     |
| R13      | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| R14      | ERD2FCVJ6R8  | 6.8Ω, 1/4W, FUSE TYPE   | 1   | △ FAJ   |
| R14      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R14      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R15      | ERD2FCVG100  | 10Ω, 1/4W, FUSE TYPE    | 1   | △ FAJ   |
| R15      | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R15      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R15      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R16      | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R16      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R16      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R16      | ERJ6GEYJ103V | 10KΩ                    | 1   | MAIN    |
| R17      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R17      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R17      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R18      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R18      | ERDS2TJ332   | 3.3KΩ                   | 1   | FAJ     |
| R18      | ERJ6GEYOR00V | 0Ω                      | 1   | MAIN    |
| R19      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R19      | ERDS2TJ332   | 3.3KΩ                   | 1   | FAJ     |
| R19      | ERJ6GEYJ105V | 1MΩ                     | 1   | MAIN    |
| R20      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R20      | ERDS2TJ221   | 10KΩ                    | 1   | FAJ     |
| R21      | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R21      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R21      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R22      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R22      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R22      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R23      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R23      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R23      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R24      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R24      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R24      | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R25      | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R25      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R25      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R25      | ERDS2TJ103   | 10KΩ                    | 1   | FAJ     |
| R26      | ERD2FCVG471  | 470Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R26      | ERDS2TJ103   | 10KΩ                    | 1   | FAJ     |
| R26      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R26      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R27      | ERDS2TJ331   | 330Ω                    | 1   | FAJ     |
| R27      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R27      | ERJ6GEYJ473V | 47KΩ                    | 1   | MAIN    |
| R28      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R28      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R28      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R29      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R29      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R29      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R30      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R30      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R30      | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R31      | ERD2FCVG101  | 100Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R31      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R31      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R31      | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R32      | ERD2FCVG101  | 100Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R32      | ERDS2TJ332   | 3.3KΩ                   | 1   | FAJ     |
| R32      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R32      | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R33      | ERD2FCVG101  | 100Ω, 1/4W, FUSE TYPE   | 1   | △ ASUB  |
| R33      | ERDS2TJ332   | 3.3KΩ                   | 1   | FAJ     |
| R33      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| R33      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R34      | ERDS2TJ104   | 100KΩ                   | 1   | FAJ     |
| R34      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R34      | ERJ6GEYJ222V | 2.2KΩ                   | 1   | MAIN    |
| R35      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R35      | ERDS2TJ680   | 68Ω                     | 1   | CPL     |
| R35      | ERJ6GEYJ101V | 100Ω                    | 1   | MAIN    |
| R36      | ERDS2TJ103   | 10KΩ                    | 1   | CPL     |
| R36      | ERDS2TJ333   | 33KΩ                    | 1   | FAJ     |
| R37      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R37      | ERDS2TJ333   | 33KΩ                    | 1   | FAJ     |
| R37      | ERJ6GEYOR00V | 0Ω                      | 1   | MAIN    |
| R38      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R38      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R38      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R39      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R39      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R39      | ERJ6GEYJ101V | 100Ω                    | 1   | MAIN    |
| R40      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R40      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R40      | ERJ6GEYJ471V | 470Ω                    | 1   | MAIN    |
| R41      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R41      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R42      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R42      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R42      | ERJ6GEYOR00V | 0Ω                      | 1   | MAIN    |
| R43      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R43      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R44      | ERDS2TJ104   | 100KΩ                   | 1   | FAJ     |
| R44      | ERJ6GEYJ330V | 33Ω                     | 1   | MAIN    |
| R44      | ERDS2TJ104   | 100KΩ                   | 1   | CPL     |
| R45      | ERDS2TJ152   | 1.5KΩ                   | 1   | FAJ     |
| R45      | ERJ6GEYJ102V | 1KΩ                     | 1   | MAIN    |
| R46      | ERDS2TJ563   | 56KΩ                    | 1   | FAJ     |
| R46      | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R47      | ERDS2TJ563   | 56KΩ                    | 1   | FAJ     |
| R48, 49  | ERDS2TJ222   | 2.2KΩ                   | 2   | FAJ     |
| R50      | ERDS2TJ103   | 10KΩ                    | 1   | FAJ     |
| R51, 52  | ERDS2TJ682   | 6.8KΩ                   | 2   | FAJ     |
| R53      | ERDS2TJ683   | 68KΩ                    | 1   | FAJ     |
| R54, 55  | ERDS2TJ333   | 33KΩ                    | 2   | FAJ     |
| R56      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R57      | ERDS2TJ683   | 68KΩ                    | 1   | FAJ     |
| R58, 59  | ERDS2TJ104   | 100KΩ                   | 2   | FAJ     |
| R60, 61  | ERDS2TJ222   | 2.2KΩ                   | 2   | FAJ     |
| R62      | ERDS2TJ683   | 68KΩ                    | 1   | FAJ     |
| R63      | ERDS2TJ682   | 6.8KΩ                   | 1   | FAJ     |
| R64      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R65, 66  | ERDS2TJ104   | 100KΩ                   | 2   | FAJ     |
| R67      | ERDS2TJ682   | 6.8KΩ                   | 1   | FAJ     |
| R68      | ERDS2TJ472   | 4.7KΩ                   | 1   | FAJ     |
| R69      | ERDS2TJ123   | 12KΩ                    | 1   | FAJ     |
| R70      | ERDS2TJ103   | 10KΩ                    | 1   | CPC     |
| R70      | ERDS2TJ123   | 12KΩ                    | 1   | FAJ     |
| R71      | ERDS2TJ103   | 10KΩ                    | 1   | CPC     |
| R71      | ERDS2TJ153   | 15KΩ                    | 1   | FAJ     |
| R72, 73  | ERDS2TJ473   | 47KΩ                    | 2   | CPC     |
| R72-74   | ERDS2TJ473   | 47KΩ                    | 3   | FAJ     |
| R75      | ERDS2TJ153   | 15KΩ                    | 1   | FAJ     |
| R76, 77  | ERDS2TJ154   | 150KΩ                   | 2   | FAJ     |
| R78      | ERDS2TJ183   | 18KΩ                    | 1   | FAJ     |
| R79      | ERDS2TJ682   | 6.8KΩ                   | 1   | FAJ     |
| R80      | ERDS2TJ183   | 18KΩ                    | 1   | FAJ     |
| R80      | ERDS2TJ333   | 33KΩ                    | 1   | CPR     |
| R81      | ERDS2T0      | 0Ω                      | 1   | CPR     |
| R81      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R82      | ERDS2TJ101   | 100Ω                    | 1   | CPR     |
| R82      | ERDS2TJ154   | 150KΩ                   | 1   | FAJ     |
| R83      | ERDS2TJ101   | 100Ω                    | 1   | CPR     |
| R83      | ERDS2TJ272   | 2.7KΩ                   | 1   | FAJ     |
| R84      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R84      | ERDS2TJ332   | 3.3KΩ                   | 1   | FAJ     |
| R85      | ERDS2TJ102   | 1KΩ                     | 1   | FAJ     |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| R85      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R86      | ERDS2TJ102   | 1KΩ                     | 1   | FAJ     |
| R86, 87  | ERDS2TJ103   | 10KΩ                    | 2   | CPR     |
| R87      | ERDS2TJ272   | 2.7KΩ                   | 1   | FAJ     |
| R88      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R88      | ERDS2TJ220   | 22Ω                     | 1   | FAJ     |
| R89      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R89      | ERDS2TJ220   | 22Ω                     | 1   | FAJ     |
| R90      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R90      | ERDS2TJ684   | 680KΩ                   | 1   | FAJ     |
| R91      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R91      | ERDS2TJ684   | 680KΩ                   | 1   | FAJ     |
| R92      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R92      | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R93      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R93      | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R94      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R94      | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R95      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R95      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R96      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R96      | ERDS2TJ821   | 820Ω                    | 1   | FAJ     |
| R97      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R97      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R98      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R98      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R99      | ERDS2TJ103   | 10KΩ                    | 1   | CPR     |
| R99      | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R100     | ERDS2TJ104   | 100KΩ                   | 1   | FAJ     |
| R100     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R101     | ERDS2TJ104   | 100KΩ                   | 1   | FAJ     |
| R101     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R101     | ERJ6GEYJ101V | 0Ω                      | 1   | MAIN    |
| R102     | ERDS2TJ104   | 100KΩ                   | 1   | FAJ     |
| R102     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R102     | ERJ6GEYJ102V | 1KΩ                     | 1   | MAIN    |
| R103     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R103     | ERDS2TJ821   | 820Ω                    | 1   | FAJ     |
| R103     | ERJ6GEYJ101V | 100Ω                    | 1   | MAIN    |
| R104     | ERDS2TJ222   | 2.2KΩ                   | 1   | FAJ     |
| R104     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R104     | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R105     | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R105     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R105     | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R106     | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R106     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R106     | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R107     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R107     | ERG1SJ680E   | 68Ω, 1W, FLAME-PROOF    | 1   | △ FAJ   |
| R107     | ERJ6GEYJ472V | 4.7KΩ                   | 1   | MAIN    |
| R108     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R108     | ERG1SJ680E   | 68Ω, 1W, FLAME-PROOF    | 1   | △ FAJ   |
| R108     | ERJ6GEYJ103V | 10KΩ                    | 1   | MAIN    |
| R109     | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R109     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R109     | ERJ6GEYJ470V | 47Ω                     | 1   | MAIN    |
| R110     | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R110     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R110     | ERJ6GEYJ101V | 100Ω                    | 1   | MAIN    |
| R111     | ERDS2TJ332   | 3.3KΩ                   | 1   | FAJ     |
| R111     | ERDS2TJ680   | 68Ω                     | 1   | CPR     |
| R111     | ERJ6GEYJ105V | 1MΩ                     | 1   | MAIN    |
| R112     | ERDS2TJ103   | 10KΩ                    | 1   | FAJ     |
| R112     | ERJ6GEYJ103V | 10KΩ                    | 1   | MAIN    |
| R113     | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R113     | ERJ6GEYJ682V | 6.8KΩ                   | 1   | MAIN    |
| R114     | ERDS2TJ105   | 1MΩ                     | 1   | FAJ     |
| R114     | ERJ6GEYJ103V | 10KΩ                    | 1   | MAIN    |
| R115     | ERD2FCVG101  | 100Ω, 1/4W, FUSE TYPE   | 1   | △ FAJ   |
| R115     | ERJ6GEYJ101V | 100Ω                    | 1   | MAIN    |

| Ref. No. | Part No.     | Part Name & Description        | Pcs | Remarks                            |
|----------|--------------|--------------------------------|-----|------------------------------------|
| R116     | ERDS2TJ103   | 10K $\Omega$                   | 1   | FAJ                                |
| R116     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R117     | ERDS2TJ103   | 10K $\Omega$                   | 1   | FAJ                                |
| R117     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R118     | ERDS2TJ333   | 33K $\Omega$                   | 1   | FAJ                                |
| R118     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R119     | ERDS2TJ473   | 47K $\Omega$                   | 1   | FAJ                                |
| R119     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R120     | ERDS2TJ472   | 4.7K $\Omega$                  | 1   | FAJ                                |
| R120     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R121     | ERDS2TJ223   | 22K $\Omega$                   | 1   | FAJ                                |
| R121     | ERJ6GEYJ103V | 10K $\Omega$                   | 1   | MAIN                               |
| R122     | ERF2EXKR10V  | 0.1 $\Omega$ , 2W, FLAME-PROOF | 1   | $\Delta$ FAJ                       |
| R123     | ERDS2TJ332   | 3.3K $\Omega$                  | 1   | FAJ                                |
| R124     | ERDS2TJ103   | 10K $\Omega$                   | 1   | FAJ                                |
| R125     | ERDS2TJ472   | 4.7K $\Omega$                  | 1   | FAJ                                |
| R125     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R126     | ERDS2TJ333   | 33K $\Omega$                   | 1   | FAJ                                |
| R126     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R127     | ERDS2TJ103   | 10K $\Omega$                   | 1   | FAJ                                |
| R127     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R128     | ERF2EXKR10V  | 0.1 $\Omega$ , 2W, FLAME-PROOF | 1   | $\Delta$ FAJ                       |
| R128     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R129     | ERF2EXKR10V  | 0.1 $\Omega$ , 2W, FLAME-PROOF | 1   | $\Delta$ FAJ                       |
| R129     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R130, 31 | ERDS2TJ472   | 4.7K $\Omega$                  | 2   | FAJ                                |
| R132, 33 | ERDS2TJ223   | 22K $\Omega$                   | 2   | FAJ                                |
| R133     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R134     | ERDS2TJ823   | 82K $\Omega$                   | 1   | FAJ                                |
| R134     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R135     | ERDS2TJ472   | 4.7K $\Omega$                  | 1   | FAJ                                |
| R135     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN, EN, XM, E Z, EK, EW, EF, E A |
| R135     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN, EP, EH, X, XL, XR, XS, XD    |
| R135     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN, XT, XP, X W, XA              |
| R136     | ERDS2TJ472   | 4.7K $\Omega$                  | 1   | FAJ                                |
| R137     | ERDS2TJ823   | 82K $\Omega$                   | 1   | FAJ                                |
| R138     | ERDS2TJ333   | 33K $\Omega$                   | 1   | FAJ                                |
| R138     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN, M, XM                        |
| R139     | ERDS2TJ472   | 4.7K $\Omega$                  | 1   | FAJ                                |
| R139     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R140, 41 | ERJ6GEY0R00V | 0 $\Omega$                     | 2   | MAIN                               |
| R143     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R144     | ERDS2TJ102   | 1K $\Omega$                    | 1   | FAJ                                |
| R144     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R145     | ERDS2TJ102   | 1K $\Omega$                    | 1   | FAJ                                |
| R145     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R146     | ERDS2TJ102   | 1K $\Omega$                    | 1   | FAJ                                |
| R146     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                               |
| R147     | ERD2FCVG220  | 22 $\Omega$ , 1/4W, FUSE TYPE  | 1   | $\Delta$ FAJ                       |
| R147     | ERJ6GEYJ103V | 10K $\Omega$                   | 1   | MAIN                               |
| R148     | ERDS2TJ102   | 1K $\Omega$                    | 1   | FAJ                                |
| R201, 02 | ERJ6GEYJ470V | 47 $\Omega$                    | 2   | MAIN                               |
| R203     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R203     | ERJ6GEYJ105V | 1M $\Omega$                    | 1   | MAIN                               |
| R204     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R204     | ERJ6GEYJ101V | 100 $\Omega$                   | 1   | MAIN                               |
| R205     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R205     | ERJ6GEYJ101V | 100 $\Omega$                   | 1   | MAIN                               |
| R206     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R206     | ERJ6GEYJ101V | 100 $\Omega$                   | 1   | MAIN                               |
| R207     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R207     | ERJ6GEYJ101V | 100 $\Omega$                   | 1   | MAIN                               |
| R208     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R208     | ERJ6GEYJ101V | 100 $\Omega$                   | 1   | MAIN                               |
| R209     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |
| R209     | ERJ6GEYJ101V | 100 $\Omega$                   | 1   | MAIN                               |
| R210     | ERDS2TJ102   | 1K $\Omega$                    | 1   | JACK                               |

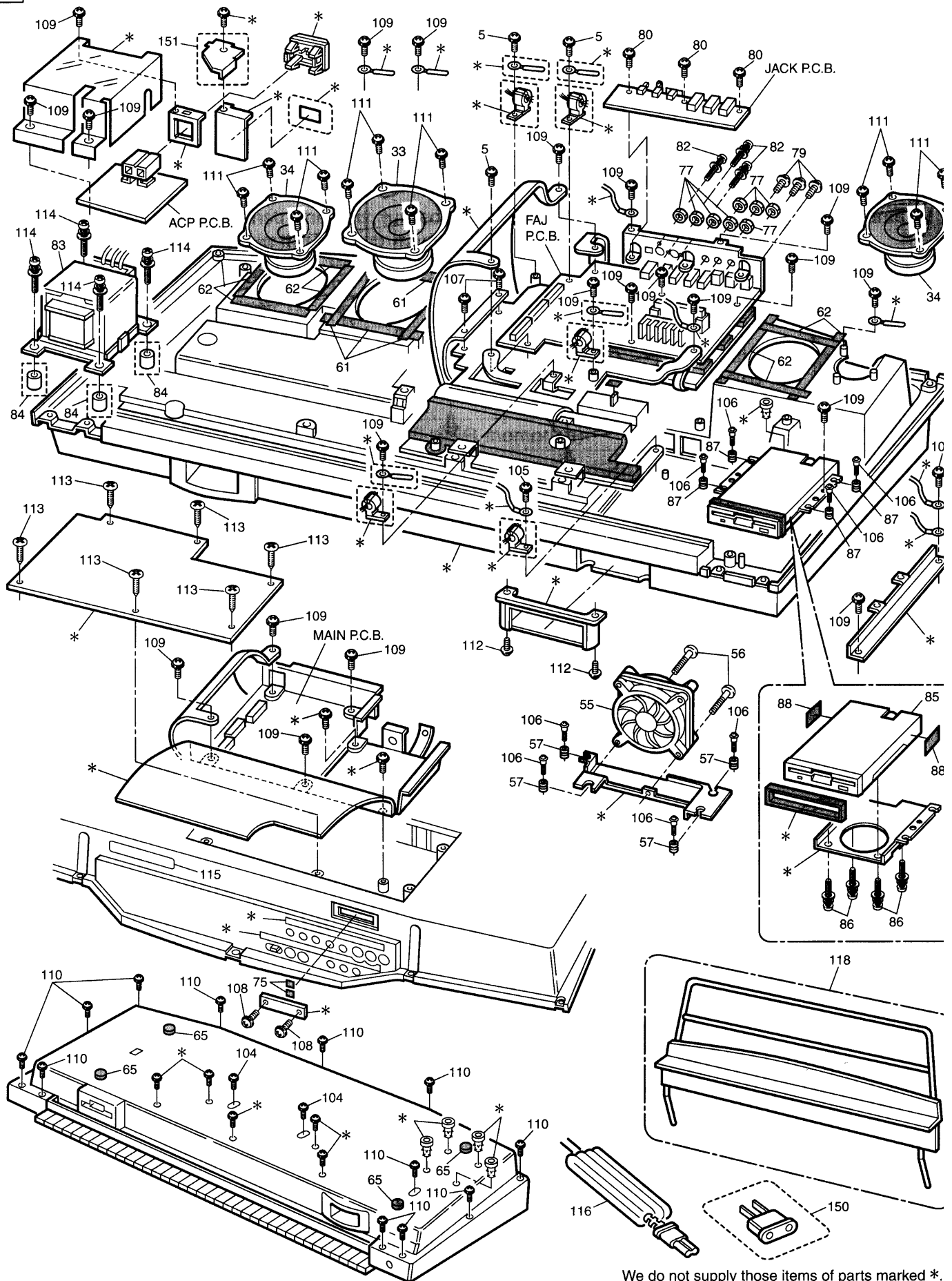
| Ref. No. | Part No.     | Part Name & Description        | Pcs | Remarks                         |
|----------|--------------|--------------------------------|-----|---------------------------------|
| R210, 11 | ERJ6GEYJ101V | 100 $\Omega$                   | 2   | MAIN                            |
| R301, 02 | ERJ6GEYJ472V | 4.7K $\Omega$                  | 2   | MAIN                            |
| R303     | ERJ6GEYJ105V | 1M $\Omega$                    | 1   | MAIN                            |
| R304     | ERJ6GEYJ470V | 47 $\Omega$                    | 1   | MAIN                            |
| R305, 06 | BK2125LL241  | COIL                           | 2   | MAIN                            |
| R307-16  | ERJ6GEYJ470V | 47 $\Omega$                    | 10  | MAIN                            |
| R317-22  | ERJ6GEYJ101V | 100 $\Omega$                   | 6   | MAIN                            |
| R323     | ERJ6GEYJ470V | 47 $\Omega$                    | 1   | MAIN                            |
| R324     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                            |
| R325     | ERJ6GEYJ823V | 82K $\Omega$                   | 1   | MAIN                            |
| R326     | QRSGBB471Q   | THERMISTOR                     | 1   | MAIN                            |
| R327, 28 | ERJ6GEYJ472V | 4.7K $\Omega$                  | 2   | MAIN                            |
| R329     | ERJ6GEYJ154V | 150K $\Omega$                  | 1   | MAIN                            |
| R330     | ERJ6GEYJ471V | 470 $\Omega$                   | 1   | MAIN                            |
| R331, 32 | ERJ6GEYJ333V | 33K $\Omega$                   | 2   | MAIN                            |
| R333-35  | ERJ6GEYJ471V | 470 $\Omega$                   | 3   | MAIN                            |
| R336     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                            |
| R337, 38 | ERJ6GEYJ151V | 150 $\Omega$                   | 2   | MAIN                            |
| R339     | ERG1SJ101E   | 100 $\Omega$ , 1W, FLAME-PROOF | 1   | $\Delta$ MAIN                   |
| R340, 41 | ERJ6GEYJ151V | 150 $\Omega$                   | 2   | MAIN                            |
| R342     | ERJ6GEYJ470V | 47 $\Omega$                    | 1   | MAIN                            |
| R343     | ERJ6GEYJ472V | 4.7K $\Omega$                  | 1   | MAIN                            |
| R344     | ERJ6GEYJ823V | 82K $\Omega$                   | 1   | MAIN                            |
| R345     | QRSGBB471Q   | THERMISTOR                     | 1   | MAIN                            |
| R346     | ERJ6GEYJ154V | 150K $\Omega$                  | 1   | MAIN                            |
| R347     | ERJ6GEYJ471V | 470 $\Omega$                   | 1   | MAIN                            |
| R348     | ERJ6GEYJ221V | 220 $\Omega$                   | 1   | MAIN                            |
| R349     | ERG1SJ102E   | 1K $\Omega$ , 1W, FLAME-PROOF  | 1   | $\Delta$ MAIN                   |
| R350     | ERJ6GEYJ105V | 1M $\Omega$                    | 1   | MAIN                            |
| R352     | ERJ6GEYJ471V | 470 $\Omega$                   | 1   | MAIN                            |
| R353, 54 | ERJ6GEYJ472V | 4.7K $\Omega$                  | 2   | MAIN                            |
| S1       | SSRG100A     | SW, VOLTAGE SELECTOR           | 1   | $\Delta$ ACP, X, XS, XD, XT, XA |
| SW1      | EVQ21507K    | SW, TACT                       | 1   | LCDL                            |
| SW2-6    | EVQ21507K    | SW, TACT                       | 5   | LCDL                            |
| SW7, 8   | EVQ21507K    | SW, TACT                       | 1   | CPL                             |
| SW9-14   | EVQ21507K    | SW, TACT                       | 6   | LCDL                            |
| SW15, 16 | EVQ21507K    | SW, TACT                       | 2   | CPL                             |
| SW17-22  | EVQ21507K    | SW, TACT                       | 6   | LCDL                            |
| SW23, 24 | EVQ21507K    | SW, TACT                       | 2   | CPL                             |
| SW25-31  | EVQ21507K    | SW, TACT                       | 7   | LCDL                            |
| SW32-78  | EVQ21507K    | SW, TACT                       | 47  | CPL                             |
| SW201    | QSSGT010AA   | SW, SLIDE                      | 1   | JACK                            |
| SW201-25 | EVQ21507K    | SW, TACT                       | 25  | LCDR                            |
| SW226-29 | EVQ21507K    | SW, TACT                       | 4   | CPC                             |
| SW230-33 | EVQ21507K    | SW, TACT                       | 4   | CPR                             |
| SW234-37 | EVQ21507K    | SW, TACT                       | 4   | CPC                             |
| SW238-41 | EVQ21507K    | SW, TACT                       | 4   | CPR                             |
| SW242-45 | EVQ21507K    | SW, TACT                       | 4   | CPC                             |
| SW246-49 | EVQ21507K    | SW, TACT                       | 4   | CPR                             |
| SW250-53 | EVQ21507K    | SW, TACT                       | 4   | CPC                             |
| SW254-57 | EVQ21507K    | SW, TACT                       | 4   | CPR                             |
| SW258-60 | EVQ21507K    | SW, TACT                       | 3   | CPC                             |
| SW261-72 | EVQ21507K    | SW, TACT                       | 12  | CPR                             |
| SW500    | QSRGT003AA   | SW, ROTARY                     | 1   | ROT                             |
| T1       | QTDG005A     | TRANSFORMER                    | 1   | $\Delta$ INV                    |
| VR1      | EVD07205B24G | VR, APC SEQUENCER VOLUME       | 1   | CPL                             |
| VR1      | EVSG0E1B223A | VR, AFTER TOUCH SENSOR ADJ     | 1   | MKB3                            |
| VR1      | QRVG20N01B14 | VR, CONTRAST                   | 1   | LCDC                            |
| VR2      | QRVG22B01B54 | VR, MODULATION                 | 1   | MB                              |
| VR2      | QRVG30P02B53 | VR, MAIN VOLUME                | 1   | CPL                             |
| VR3      | EVA07015B54G | VR, PITCH BEND                 | 1   | HB                              |
| VR4      | EVA07115B14G | VR, MODULATION                 | 1   | HB                              |
| VR10     | QRVG20N01B14 | VR, MIC VOLUME                 | 1   | CPR                             |

SX-KN6000

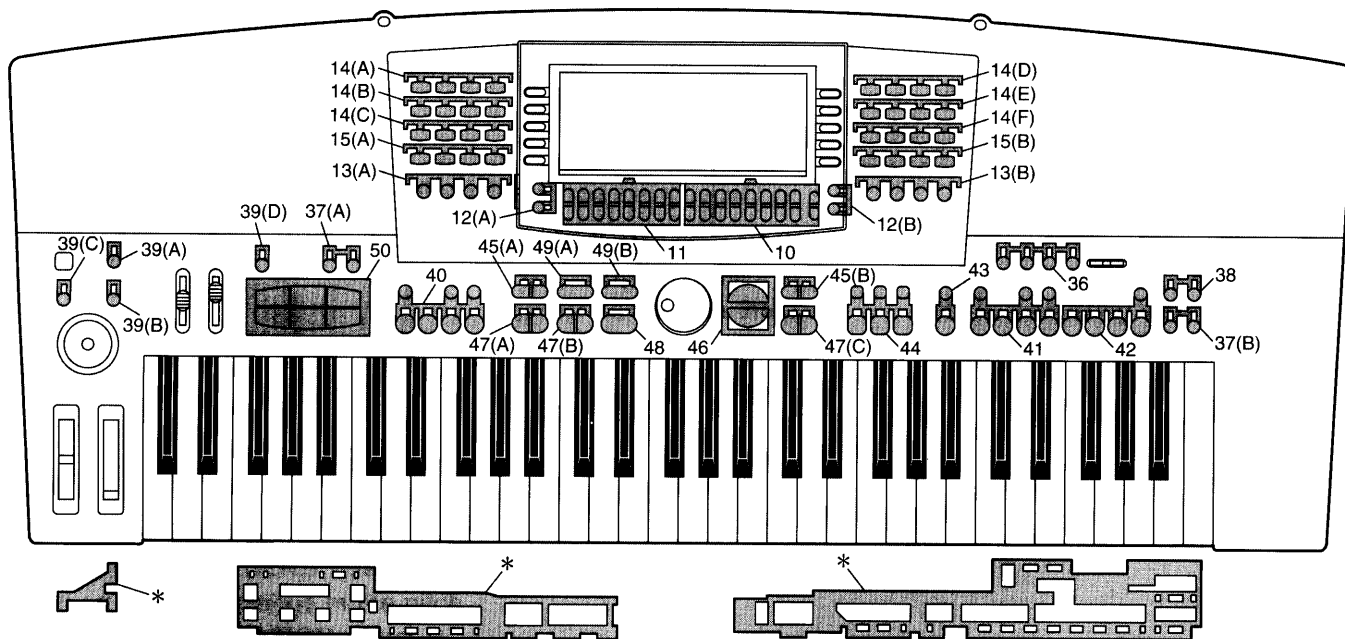
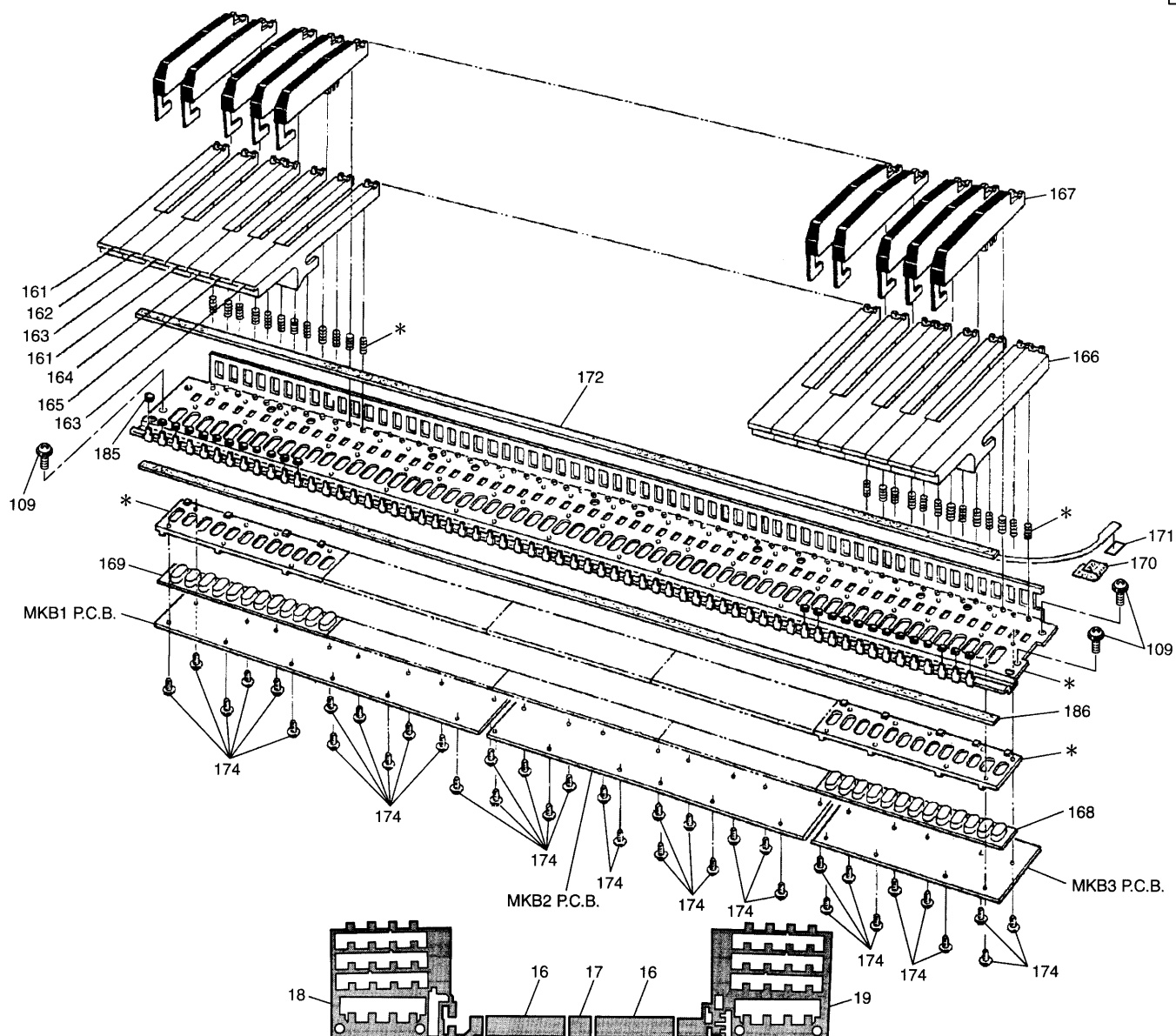
| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| W1       | QEXGSS05120A | CONNECTOR WITH WIRE (5P)  | 1   |         |
| W2       | QEXGSA04010A | CONNECTOR WITH WIRE (4P)  | 2   |         |
| W3       | QEUGM8W17DZ  | FLAT CABLE (8P)           | 1   |         |
| W4       | QEXGVH03055B | CONNECTOR WITH WIRE (2P)  | 1   | △       |
| W5       | QEUGMHW38DZ  | FLAT CABLE (17P)          | 1   |         |
| W6       | QEUGMFW27DZ  | FLAT CABLE (15P)          | 1   |         |
| W7       | QEUGMHW16DZ  | FLAT CABLE (17P)          | 1   |         |
| W8       | QEUGMKW25DZ  | FLAT CABLE (19P)          | 1   |         |
| W9       | QEUGMHW26DZ  | FLAT CABLE (17P)          | 1   |         |
| W10      | QEXGSS16040A | CONNECTOR WITH WIRE (16P) | 1   |         |
| W12      | QEUGMKW08D   | FLAT CABLE (19P)          | 1   |         |
| W13      | QEXGSA10080C | CONNECTOR WITH WIRE (10P) | 1   |         |
| W14      | QEXGSA13075C | CONNECTOR WITH WIRE (13P) | 1   |         |
| W15      | QEUGMZW15E   | FLAT CABLE (33P)          | 3   |         |
| W16      | QEUGMMW09D   | FLAT CABLE (21P)          | 1   |         |
| W17      | QEXGSS05010A | CONNECTOR WITH WIRE (5P)  | 1   |         |
| W18      | QEXGVH06090D | CONNECTOR WITH WIRE (6P)  | 1   |         |
| W19      | QEXGVH03055H | CONNECTOR WITH WIRE (3P)  | 1   |         |
| W20      | QEXGSS16050A | CONNECTOR WITH WIRE (16P) | 1   |         |
| W21      | QEXGSS05055A | CONNECTOR WITH WIRE (5P)  | 1   |         |
| W22      | QEUGS8W07BZ  | FLAT CABLE (8P)           | 1   |         |
| W23      | QJTG01007AA  | FLAT CABLE (7P)           | 1   |         |
| W24      | QEUGS8W07BZ  | FLAT CABLE (8P)           | 1   |         |
| W25      | QJTG01007AA  | FLAT CABLE (7P)           | 1   |         |
| W26      | QEXGZA34060C | CONNECTOR WITH WIRE (15P) | 1   |         |
| W27      | QEUGMLW15BZ  | FLAT CABLE (20P)          | 1   |         |
|          |              |                           |     |         |
| X1       | EFOEC4004T3  | OSCILLATOR                | 1   | CPL     |
| X1       | QXSG1I3200A  | OSCILLATOR                | 1   | MAIN    |
| X10      | EFOEC4004T3  | OSCILLATOR                | 1   | CPR     |
| X101     | QXSG2F2400A  | OSCILLATOR                | 1   | MAIN    |
| X201     | QXSG1A1693A  | OSCILLATOR                | 1   | MAIN    |
| X301     | QXSG1I3000A  | OSCILLATOR                | 1   | MAIN    |
|          |              |                           |     |         |
| Z1       | EXBA10E472J  | 4.7KΩ×4                   | 1   | MAIN    |
| Z1       | EXBV8V220J   | 22Ω×4                     | 1   | INV     |
| Z2       | EXBV8V220J   | 22Ω×4                     | 1   | MAIN    |
| Z2       | EXBV8V220J   | 22Ω×4                     | 1   | INV     |
| Z3       | EXBV8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z3       | EXBV8V220J   | 22Ω×4                     | 1   | INV     |
| Z4       | EXBV8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z5-Z9    | EXBA10E472J  | 4.7KΩ×5                   | 5   | MAIN    |
| Z10      | EXBS8V101J   | 100Ω×4                    | 1   | MAIN    |
| Z11      | EXBS8VR000   | 0Ω×4                      | 1   | MAIN    |
| Z13-16   | EXBA10E472J  | 4.7KΩ×5                   | 4   | MAIN    |
| Z17-24   | EXBV8VR000V  | 0Ω×4                      | 8   | MAIN    |
| Z101     | EXBS8V102J   | 1KΩ×4                     | 1   | MAIN    |
| Z102-04  | EXBV8V470J   | 47Ω×4                     | 3   | MAIN    |
| Z105     | EXBV8V103J   | 10KΩ×4                    | 1   | MAIN    |
| Z106     | EXBV8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z107,08  | EXBS8V470J   | 47Ω×4                     | 2   | MAIN    |
| Z109     | EXBV8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z110     | EXBS8V101J   | 100Ω×4                    | 1   | MAIN    |
| Z111     | EXBV8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z112     | EXBS8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z113     | EXBV8V470J   | 47Ω×4                     | 1   | MAIN    |
| Z114     | EXBS8V472J   | 4.7KΩ×4                   | 1   | MAIN    |
| Z115     | EXBA10E472J  | 4.7KΩ×5                   | 1   | MAIN    |
| Z116     | EXBS8V472J   | 4.7KΩ×4                   | 1   | MAIN    |
| Z117     | EXBS8V103J   | 10KΩ×4                    | 1   | MAIN    |
| Z201-03  | EXBV8V470J   | 47Ω×4                     | 3   | MAIN    |
| Z204     | EXBA10E472J  | 4.7KΩ×5                   | 1   | MAIN    |
| Z205,06  | EXBV8V472J   | 4.7KΩ×4                   | 2   | MAIN    |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| Z212,13  | EXBV8V101J   | 100Ω×4                  | 2   | MAIN    |
| Z214,15  | EXBV8V470J   | 47Ω×4                   | 2   | MAIN    |
| Z216     | EXBV8V101J   | 100Ω×4                  | 1   | MAIN    |
| Z217,18  | EXBV8V470J   | 47Ω×4                   | 2   | MAIN    |
| Z219-30  | EXBV8V101J   | 100Ω×4                  | 12  | MAIN    |
| Z301     | EXBS8V470J   | 47KΩ×4                  | 1   | MAIN    |
| Z302,03  | EXBV8V470J   | 47Ω×4                   | 2   | MAIN    |
| Z304-07  | BK32164M601T | COIL                    | 4   | MAIN    |
| Z308     | EXBA10E472J  | 4.7KΩ×5                 | 1   | MAIN    |
| Z309,10  | EXBS8V470J   | 47Ω×4                   | 2   | MAIN    |
| Z311,12  | BK32164M601T | COIL                    | 2   | MAIN    |
| Z313     | EXBA10E472J  | 4.7KΩ×5                 | 1   | MAIN    |
| Z314,15  | EXBV8V101J   | 100Ω×4                  | 2   | MAIN    |
| Z316     | EXBV8V470J   | 47Ω×4                   | 1   | MAIN    |
| Z317     | EXBV8V220J   | 22Ω×4                   | 1   | MAIN    |
|          |              |                         |     |         |
| ZC1      | ECJRVCLH101K | 100PF×4                 | 1   | MAIN    |
| ZC101-07 | ECJRVCLH470K | 47PF×4                  | 7   | MAIN    |
| ZC108-10 | ECJRVCLH101K | 100PF×4                 | 3   | MAIN    |
| ZC203    | ECJRVCLH470K | 47PF×4                  | 1   | MAIN    |





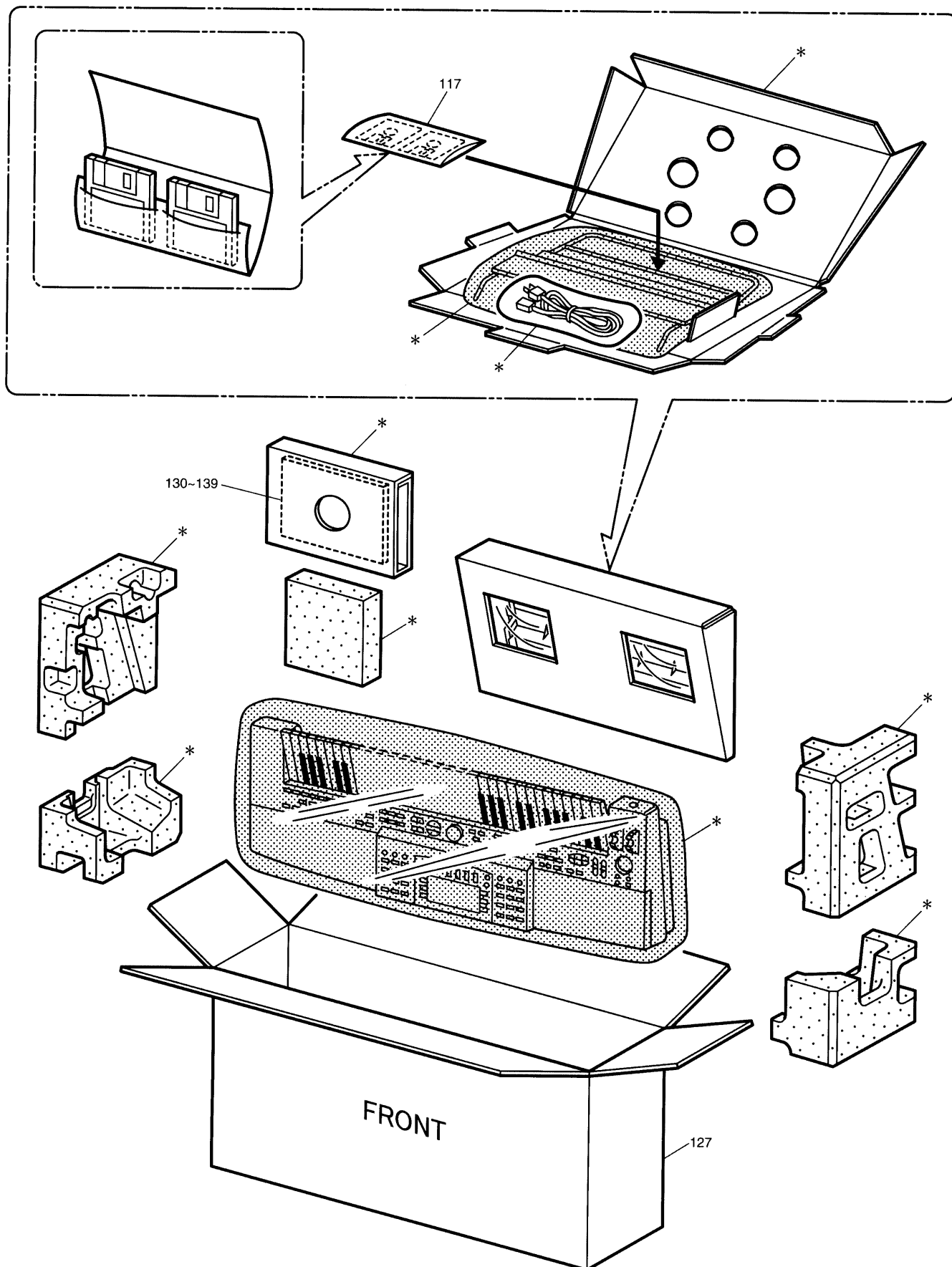
We do not supply those items of parts marked \*.



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| REF.NO. | DESCRIPTION                                                            |
|---------|------------------------------------------------------------------------|
| 10      | PAGE                                                                   |
| 11      | MUTE                                                                   |
| 12(A)   | OTHER PARTS/TR,HELP                                                    |
| 12(B)   | DISPLAY HOLD,EXIT                                                      |
| 13(A)   | SOUND ARRANGER(SET,OFF/ON),AUTO PLAY CHORD(MODE,OFF/ON)                |
| 13(B)   | PART EFFECT(SUSTAIN,DIGITAL EFFECT,SOUND DSP,VARIATION)                |
| 14(A)   | RHYTHM GROUP(8&16 BEAT,POP,BALLAD,ROCK'N ROLL&BLUES)                   |
| 14(B)   | RHYTHM GROUP(SOUL&FUNK,MODERN DANCE,U.S.TRAD,COUNTRY)                  |
| 14(C)   | RHYTHM GROUP(BIG BAND&SWING,JAZZ COMBO,MARCH&WALTZ,BALLROOM&SHOW TIME) |
| 14(D)   | SOUND GROUP(PIANO,GUITAR,STRINGS&VOCAL,BRASS)                          |
| 14(E)   | SOUND GROUP(MALLET&ORCH PERC,WORLD,ORGAN&ACCORDION,SAX&WOODWIND)       |
| 14(F)   | SOUND GROUP(PAD,SYNTH,BASS,DRUM KITS)                                  |
| 15(A)   | RHYTHM GROUP(LATIN,WORLD,CUSTOM,MEMORY LOAD)                           |
| 15(B)   | SOUND GROUP(DIGITAL DRAWBAR,ACCODION REGISTER,SOUND EXPLORER,MEMORY)   |
| 36      | GLOBAL EFFECT(CHORUS,MULTI,REVERB,MIC)                                 |
| 37(A)   | PERFORMANCE PADS(BANK,STOP)                                            |
| 37(B)   | PROGRAM MENUS,DISK                                                     |
| 38      | SEQUENCER(PLAY,EASY REC)                                               |
| 39(A)   | DEMO                                                                   |
| 39(B)   | SOUND CONTROLLER(MODE)                                                 |
| 39(C)   | SOUND CONTROLLER(RESET)                                                |
| 39(D)   | PERFORMANCE PADS(AUTO SETTING)                                         |
| 40      | MUSIC STYLE ARRANGER,ONE TOUCH PLAY,SPLIT POINT,VARIATION&MSA(1,2,3,4) |
| 41      | SET,PANEL MEMORY(1,2,3,4,)NEXT BANK,BANK VIEW                          |
| 42      | PANEL MEMORY(5,6,7,8),CUSTOM PANEL                                     |
| 43      | SOLO,TECHNI-CHORD                                                      |
| 44      | PART SELECT/CONDUCTOR(LEFT,RIGHT1,RIGHT2)                              |
| 45(A)   | FADE IN/OUT                                                            |
| 45(B)   | TRANSPOSE +,-                                                          |
| 46      | MUSIC STYLOST,FAVORITES                                                |
| 47(A)   | SEQUENCER CONT,RESET INTRO,FILL IN 1,2                                 |
| 47(B)   | INTRO&ENDING 1,2                                                       |
| 47(C)   | R1/R2 OCTAVE                                                           |
| 48      | START/STOP,1,2,3,4 BEAT                                                |
| 49(A)   | TAP TEMPO                                                              |
| 49(B)   | SYNCHRO&BREAK                                                          |
| 50      | PERFORMANCE PADS                                                       |
| 51      | TEMPO/PROGRAM                                                          |
| 52      | MAIN VOLUME,APS/SEQUENCER VOLUME                                       |
| 53      | POWER ON/OFF                                                           |
| 54      | SOUND CONTROLLER                                                       |
| 67      | PITCH,MODULATION                                                       |

# 17 Packaging



We do not supply those items of parts marked \*.